API Well Number: 43013519420000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3
AMENDED REPORT ☑

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER Powvitch 2-24-3-2WH	
2. TYPE OF WORK DRILL NEW WELL ◉ REENTER P&A WELL ○ DEEPEN WELL ○	**3. FIELD OR WILDCAT** WILDCAT
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO	**5. UNIT or COMMUNITIZATION AGREEMENT NAME**
6. NAME OF OPERATOR NEWFIELD PRODUCTION COMPANY	**7. OPERATOR PHONE** 435 646-4825
8. ADDRESS OF OPERATOR Rt 3 Box 3630 , Myton, UT, 84052	**9. OPERATOR E-MAIL** mcrozier@newfield.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 14-20-H62-6176	**11. MINERAL OWNERSHIP** FEDERAL ○ INDIAN ◉ STATE ○ FEE ○
12. SURFACE OWNERSHIP FEDERAL ○ INDIAN ◉ STATE ○ FEE ○	
13. NAME OF SURFACE OWNER (if box 12 = 'fee')	**14. SURFACE OWNER PHONE (if box 12 = 'fee')**
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')	**16. SURFACE OWNER E-MAIL (if box 12 = 'fee')**
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Heirs of Annie Powvitch - UTE	**18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS** YES ○ (Submit Commingling Application) NO ◉
19. SLANT VERTICAL ○ DIRECTIONAL ○ HORIZONTAL ◉	

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	75 FNL 2332 FEL	NWNE	24	3.0 S	2.0 W	U
Top of Uppermost Producing Zone	75 FNL 2332 FEL	NWNE	24	3.0 S	2.0 W	U
At Total Depth	660 FSL 1980 FEL	SWSE	24	3.0 S	2.0 W	U

21. COUNTY DUCHESNE	**22. DISTANCE TO NEAREST LEASE LINE (Feet)** 75	**23. NUMBER OF ACRES IN DRILLING UNIT** 40
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 0	**26. PROPOSED DEPTH** MD: 12726 TVD: 8249
27. ELEVATION - GROUND LEVEL 5109	**28. BOND NUMBER** RLB0010462	**29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE** 437478

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
COND	17.5	14	0 - 60	37.0	H-40 ST&C	0.0	Class G	35	1.17	15.8
SURF	12.25	9.625	0 - 2500	36.0	J-55 LT&C	8.3	Type III	216	3.33	11.0
							Type III	95	1.9	13.0
I1	8.75	7	0 - 8751	26.0	P-110 Other	11.5	35/65 Poz	241	2.59	11.5
							50/50 Poz	282	1.62	13.0
PROD	6.125	4.5	7831 - 12726	13.5	P-110 Other	11.5	No Used	0	0.0	0.0

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	☑ COMPLETE DRILLING PLAN
☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	☑ TOPOGRAPHICAL MAP

NAME Don Hamilton	**TITLE** Permitting Agent	**PHONE** 435 719-2018
SIGNATURE	**DATE** 12/21/2012	**EMAIL** starpoint@etv.net

API NUMBER ASSIGNED
43013519420000

APPROVAL

Permit Manager

RECEIVED: January 16, 2013

Newfield Production Company
2-24-3-2WH
Surface Hole Location: 75' FNL, 2332' FEL, Section 24, T3S, R2W
Bottom Hole Location: 660' FSL, 1980' FEL, Section 24, T3S, R2W
Duchesne County, UT

Drilling Program

1. Formation Tops

Uinta	surface
Green River	3,312'
Garden Gulch member	6,105'
Uteland Butte	8,352'
Lateral TD	8,249' TVD / 12,726' MD

2. Depth to Oil, Gas, Water, or Minerals

Base of moderately saline	1,259'	(water)
Green River	6,105' - 8,249'	(oil)

3. Pressure Control

Section	BOP Description
Surface	12-1/4" diverter
Interm/Prod	The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system. A 5M BOP system will consist of 2 ram preventers (double or two singles) and an annular preventer (see attached diagram). A choke manifold rated to at least 5,000 psi will be used.

4. Casing

Description	Interval		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom (TVD/MD)							Burst	Collapse	Tension
Conductor 14	0'	60'	37	H-40	Weld	--	--	--	--	--	--
									--	--	--
Surface 9 5/8	0'	2,500'	36	J-55	LTC	8.33	8.33	12	3,520	2,020	453,000
									2.51	2.54	5.03
Intermediate 7	0'	8,384' 8,751'	26	P-110	BTC	11	11.5	15	9,960	6,210	830,000
									2.52	1.49	3.65
Production 4 1/2	7,831'	8,249' 12,726'	13.5	P-110	BTC	11	11.5	--	12,410	10,670	422,000
									3.19	2.60	6.39

Assumptions:

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)
Intermediate casing MASP = (reservoir pressure) - (gas gradient)

RECEIVED: December 21, 2012

Production casing MASP = (reservoir pressure) - (gas gradient)
All collapse calculations assume fully evacuated casing with a gas gradient
All tension calculations assume air weight of casing
Gas gradient = 0.1 psi/ft

All casing shall be new.
All casing strings shall have a minimum of 1 centralizer on each of the bottom 3 joints.

5. Cement

Job	Hole Size	Fill	Slurry Description	ft^3 / sacks	OH excess	Weight (ppg)	Yield (ft^3/sk)
Conductor	17 1/2	60'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	41 / 35	15%	15.8	1.17
Surface Lead	12 1/4	2,000'	Type III + .125 lbs/sk Cello Flakes	720 / 216	15%	11.0	3.33
Surface Tail	12 1/4	500'	Type III + .125 lbs/sk Cello Flakes	180 / 95	15%	13.0	1.9
Intermediate Lead	8 3/4	3,605'	Premium - 65% Class G / 35% Poz + 10% Bentonite	623 / 241	15%	11.5	2.59
Intermediate Tail	8 3/4	2,646'	50/50 Poz/Class G + 1% bentonite	457 / 282	15%	13.0	1.62
Production	6 1/8	--	Liner will not be cemented. It will be isolated with a liner top packer.	-- / --	--	--	--

The surface casing will be cemented to surface. In the event that cement does not reach surface during the primary cement job, a remedial job will be performed.

Actual cement volumes for the intermediate casing string will be calculated from an open hole caliper log, plus 15% excess.

The cement slurries will be adjusted for hole conditions and blend test results.

The production liner will be left uncemented. Individual frac stages will be isolated with open hole packers. A liner top hanger and packer will be installed 50' above KOP.

6. Type and Characteristics of Proposed Circulating Medium

Interval	Description
Surface - 2,500'	An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.
2,500' - TD	A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and

RECEIVED: December 21, 2012

if conditions warrant, with barite.
Anticipated maximum mud weight is 11.5 ppg.

7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log will be run in the intermediate section from the top of the curve to the base of the surface casing. A compensated neutron/formation density log will be run in the intermediate section from the top of the curve to the top of the Garden Gulch formation. A cement bond log will be run from the top of the curve to the cement top behind the intermediate casing.

Cores: As deemed necessary.

DST: There are no DST's planned for this well.

8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.57 psi/ft gradient.

8,249' x 0.57 psi/ft = 4718 psi

No abnormal temperature is expected. No H_2S is expected.

9. Other Aspects

An 8-3/4" vertical hole will be drilled to a kick off point of 7,881' .
Directional tools will then be used to build to 92.10 degrees inclination.
The 7" intermediate casing string will be set once the well is landed horizontally in the target zone.

The lateral will be drilled to the bottomhole location shown on the plat.
A liner with a system of open hole packers will be used to provide multi-stage frac isolation in the lateral. The top of the liner will be place 50' above KOP and will be isolated with a liner top packer.

Newfield requests the following variances from Onshore Order #2:
- Variance from Onshoer Order #2, III.E.1
  Refer to Newfield Production Company Standard Operating Practices "Ute Tribal Green River Development Program" paragraph 9.0

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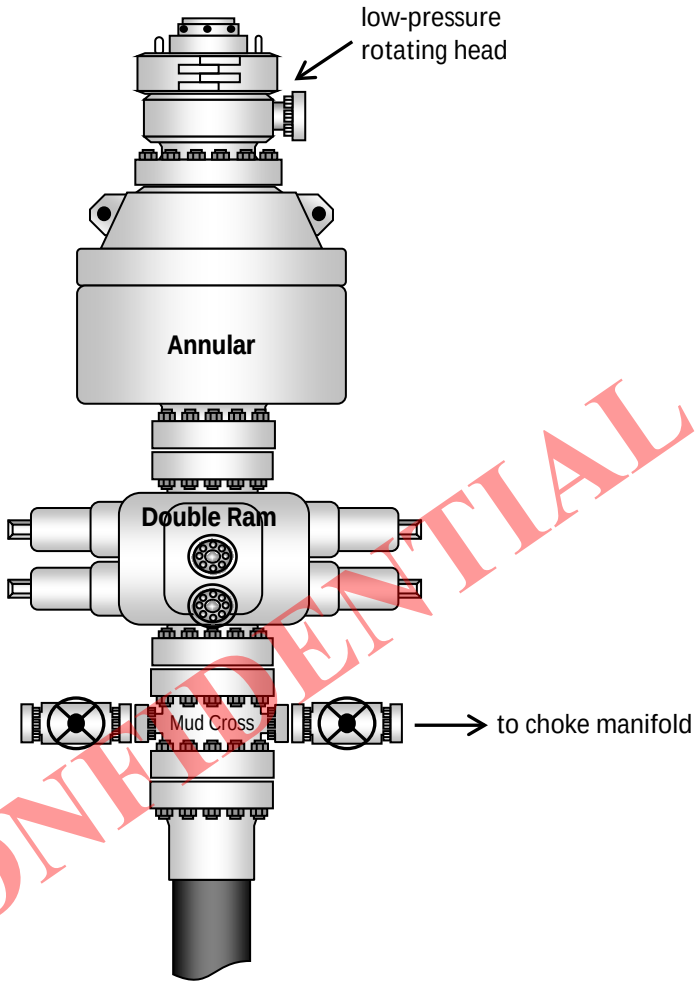
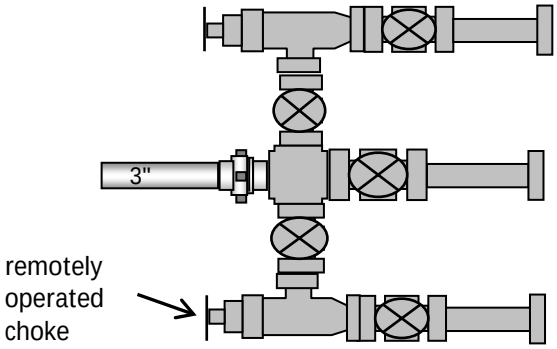
Typical 5M BOP stack configuration



Typical 5M choke manifold configuration



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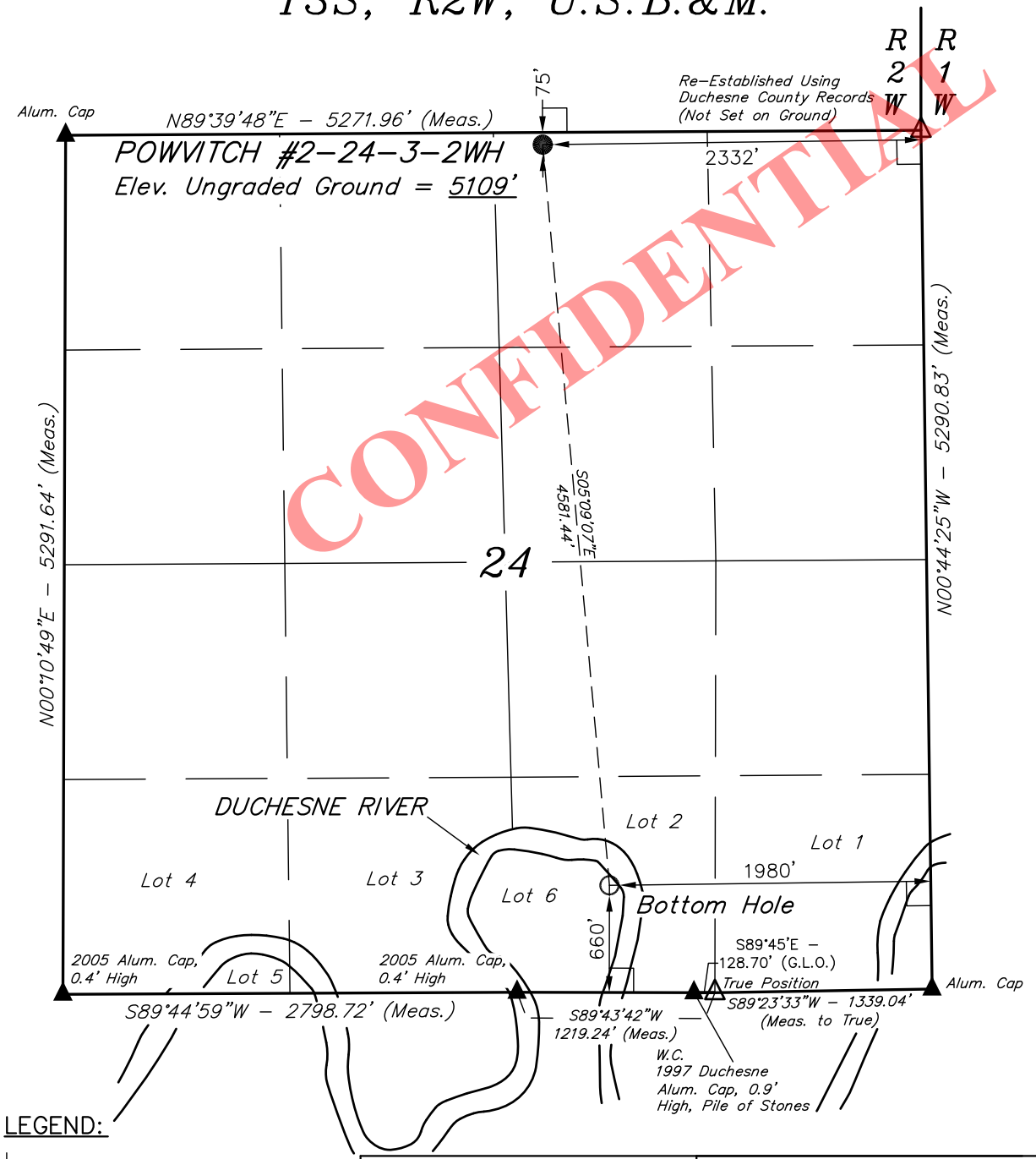
T3S, R2W, U.S.B.&M.



LEGEND:

- └ = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°12'08.30" (40.202306)	LATITUDE = 40°12'53.38" (40.214828)
LONGITUDE = 110°03'18.95" (110.055264)	LONGITUDE = 110°03'24.21" (110.056725)
NAD 27 (TARGET BOTTOM HOLE)	**NAD 27 (SURFACE LOCATION)**
LATITUDE = 40°12'08.44" (40.202344)	LATITUDE = 40°12'53.53" (40.214869)
LONGITUDE = 110°03'16.41" (110.054558)	LONGITUDE = 110°03'21.67" (110.056019)

NEWFIELD EXPLORATION COMPANY

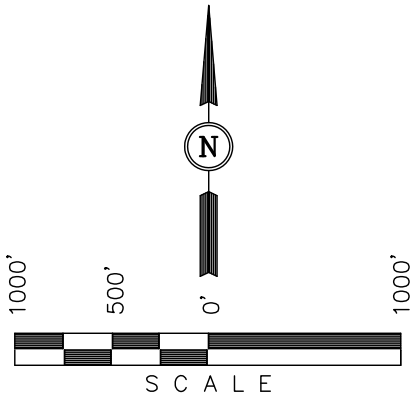
Well location, POWVITCH #2-24-3-2WH, located as shown in the NW 1/4 NE 1/4 of Section 24, T3S, R2W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT THE SOUTHEAST CORNER OF SECTION 20, T3S, R2W, U.S.B.&M. TAKEN FROM THE MYTON, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5148 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REGISTERED LAND SURVEYOR NO. 161319 ROBERT L. KAY STATE OF UTAH 04-06-12

REVISED: 04-03-12

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
(435) 789-1017

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	02-10-12	02-15-12
PARTY: J.C. G.O. J.J.	REFERENCES: G.L.O. PLAT	
WEATHER: COOL	FILE: NEWFIELD EXPLORATION COMPANY	

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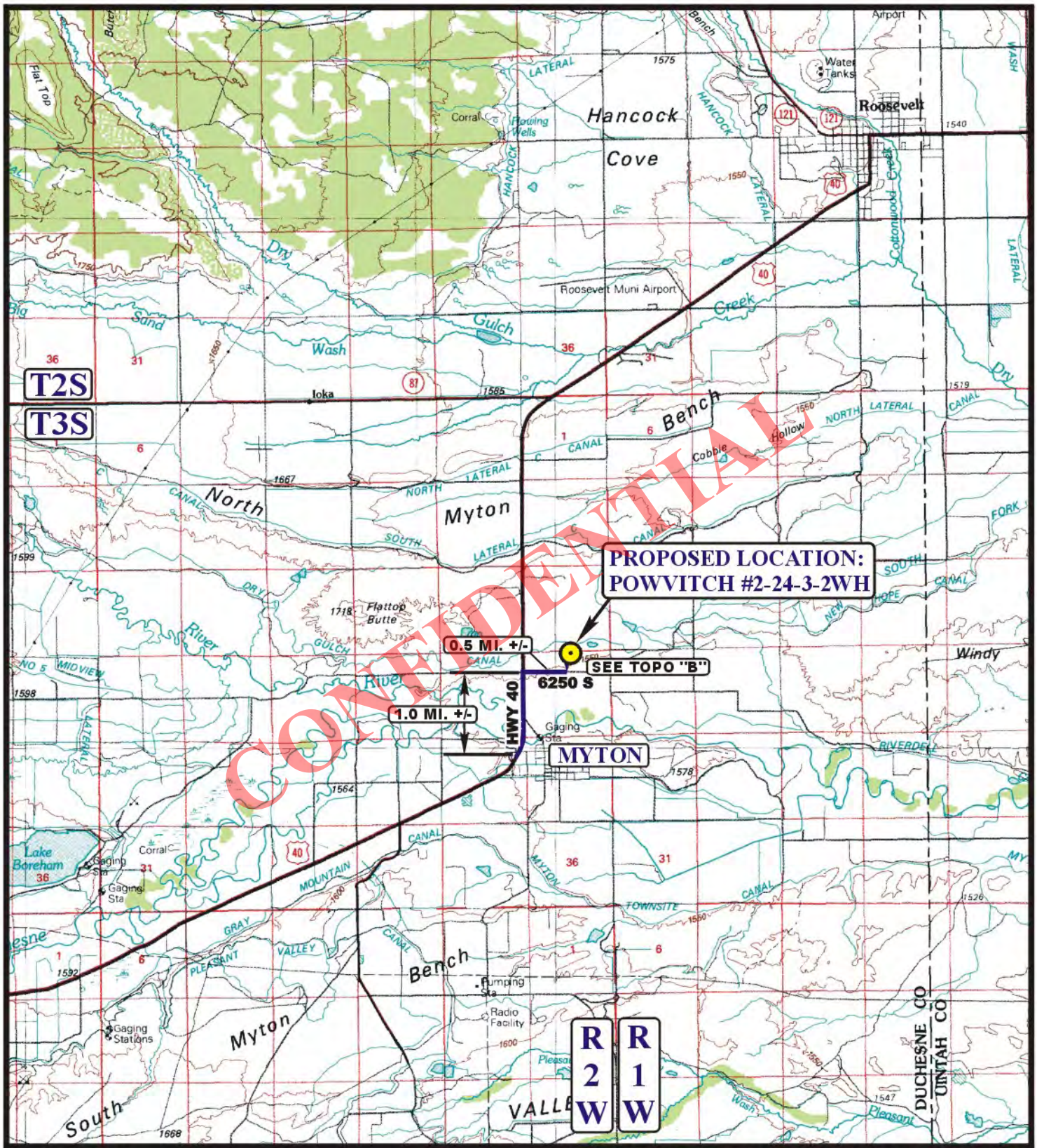
API Well Number: 43013519420000



LEGEND:

PROPOSED LOCATION

N

NEWFIELD EXPLORATION COMPANY

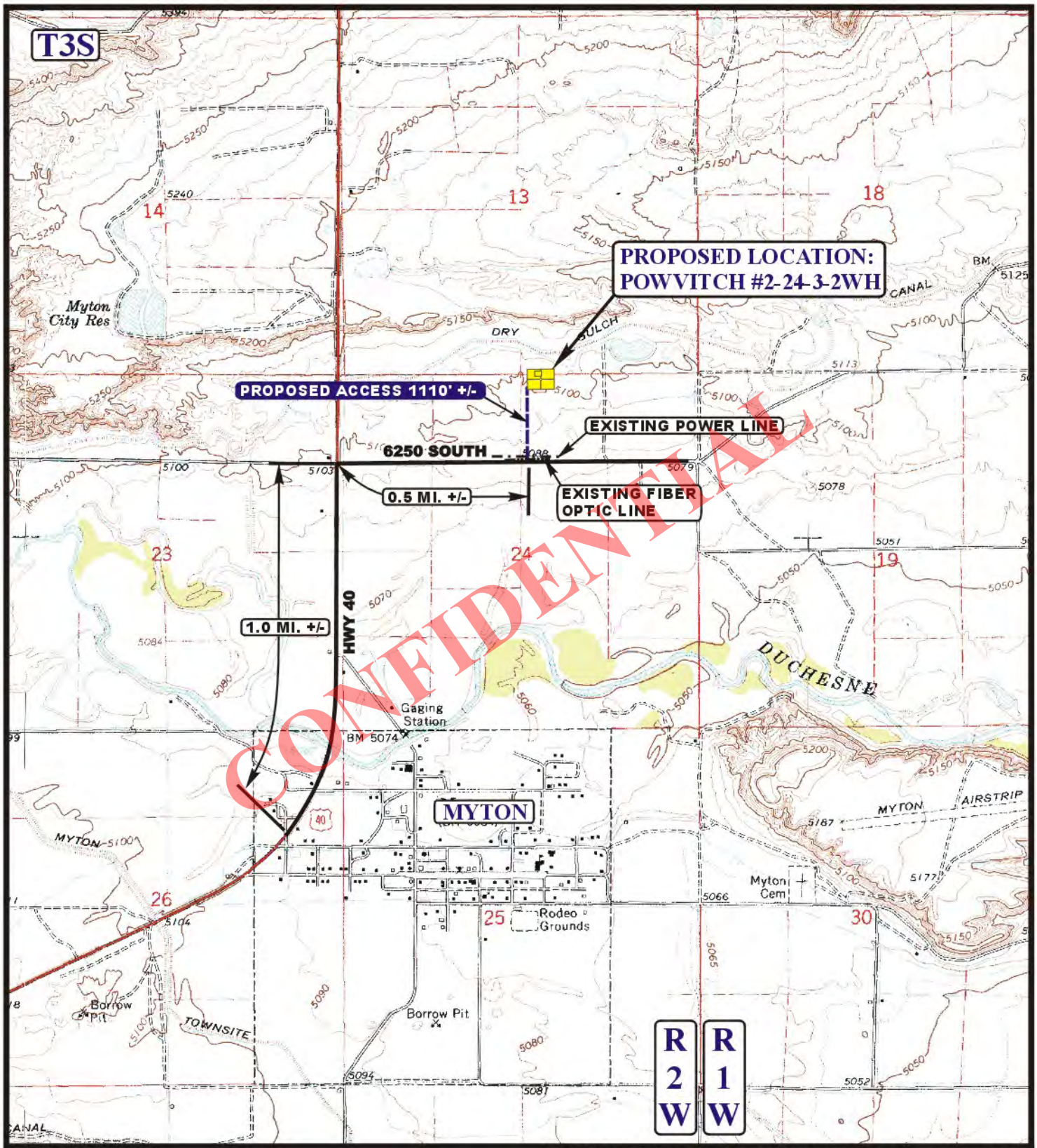
POWVITCH #2-24-3-2WH
SECTION 24, T3S, R2W, U.S.B.&M.
75' FNL 2332' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

ACCESS ROAD MAP | 02 MONTH | 14 DAY | 12 YEAR | A TOPO

SCALE: 1:100,000 | DRAWN BY: B.D.H. | REV: 04-05-12 C.I.

API Well Number: 43013519420000



LEGEND:

- EXISTING ROAD
- PROPOSED ACCESS ROAD
- EXISTING FENCE
- EXISTING POWER LINE
- EXISTING FIBER OPTIC LINE

N

NEWFIELD EXPLORATION COMPANY

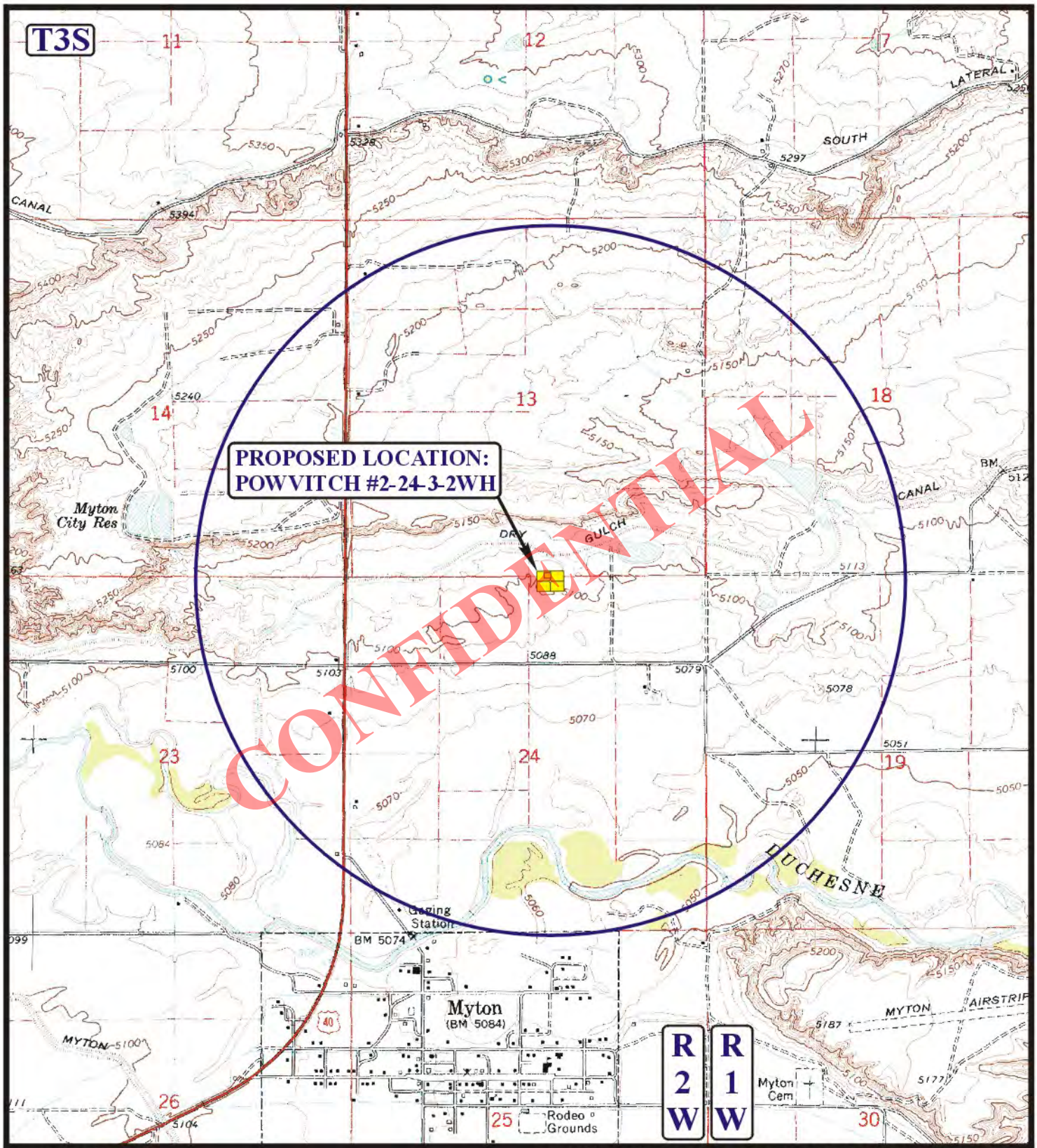
POWVITCH #2-24-3-2WH
SECTION 24, T3S, R2W, U.S.B.&M.
75' FNL 2332' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

ACCESS ROAD MAP | 02 MONTH | 14 DAY | 12 YEAR | B TOPO

SCALE: 1" = 2000' | DRAWN BY: B.D.H. | REV: 04-05-12 C.I.

API Well Number: 43013519420000



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

N

NEWFIELD EXPLORATION COMPANY

POWVITCH #2-24-3-2WH
SECTION 24, T3S, R2W, U.S.B.&M.
75' FNL 2332' FEL

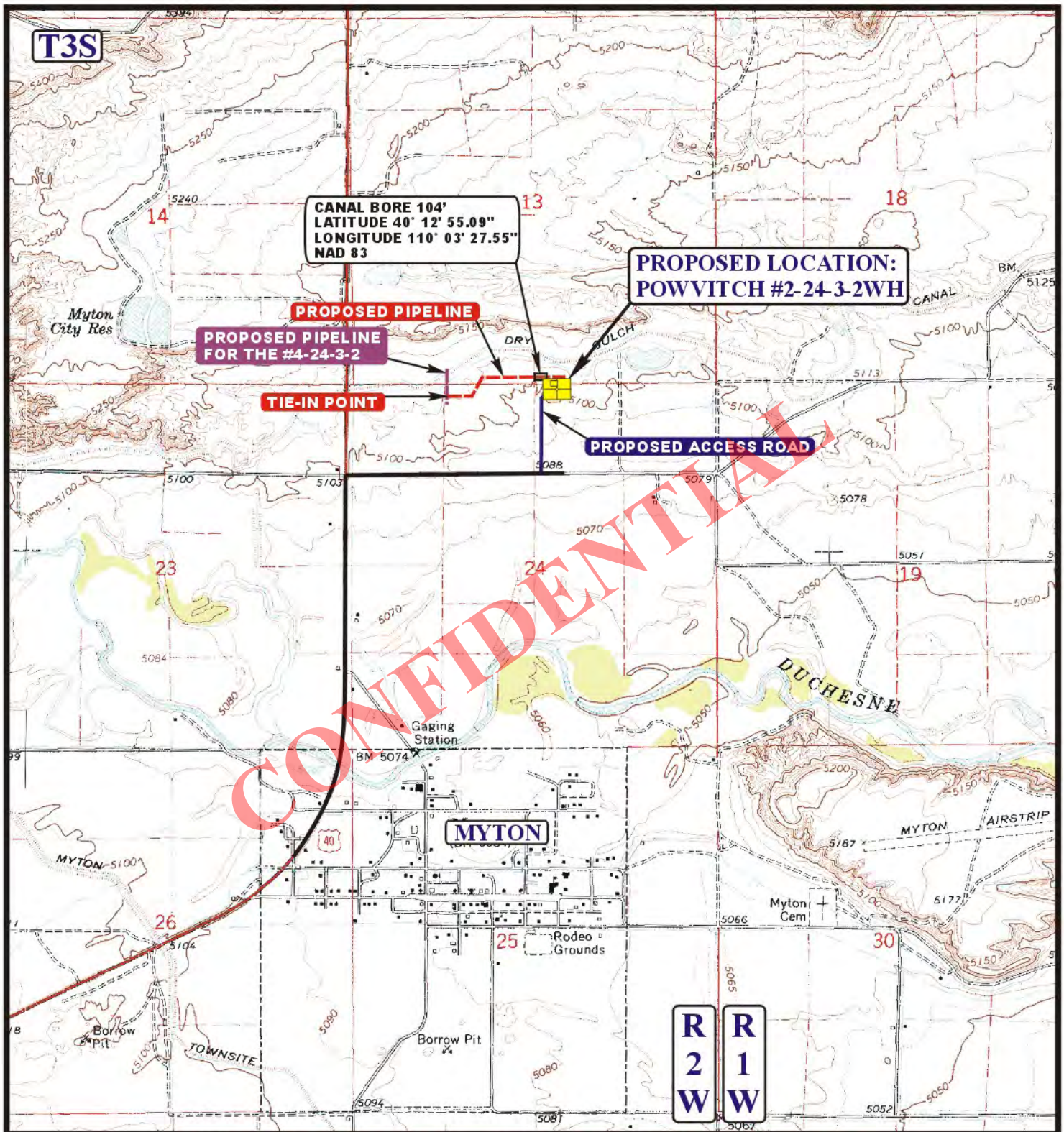
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP | 02 MONTH | 14 DAY | 12 YEAR

SCALE: 1" = 2000' | DRAWN BY: B.D.H. | REV: 04-05-12 C.I.

C TOPO

API Well Number: 43013519420000



APPROXIMATE TOTAL PIPELINE DISTANCE =1,870' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)

N

NEWFIELD EXPLORATION COMPANY

POWVITCH #2-24-3-2WH
SECTION 24, T3S, R2W, U.S.B.&M.
75' FNL 2332' FEL

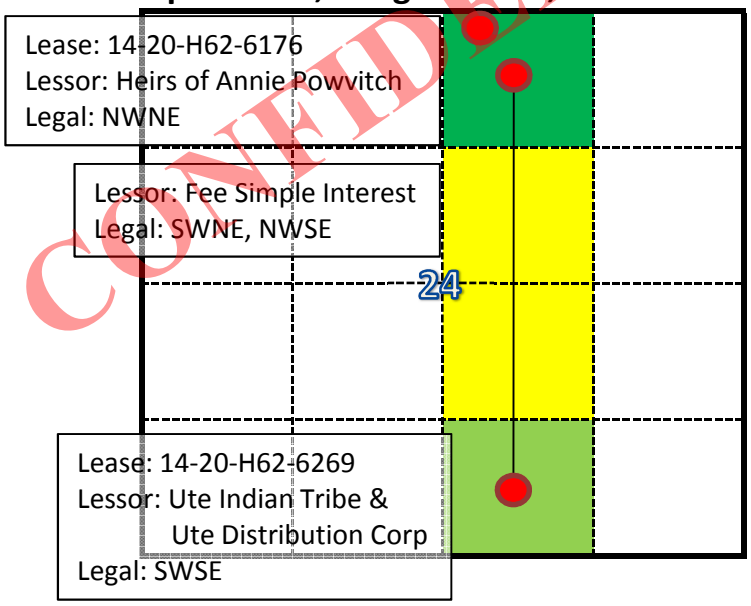
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	02 MONTH	14 DAY	12 YEAR	D TOPO
SCALE: 1" = 2000'	DRAWN BY: B.D.H.	REV: 09-26-12 C.I.		

Powvitch 2-24-3-2WH

SHL 75' FNL & 2332' FEL
Top of Producing Interval 660' FNL & 1980' FEL
BHL 660' FSL & 1980' FEL

Township 3 South, Range 2 West, Section 24: W½E½



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Newfield Exploration Company

Duchesne County, UT
Sec. 24-T3S-R2W
2-24-3-2WH

Plan A Rev 0 Permit

Plan: Plan A Rev 0 Proposal - Permit Only

Sperry Drilling Services

Proposal Report

30 November, 2012

Well Coordinates: 2,209,874.11 N, 622,844.65 E (40° 12' 53.38" N, 110° 03' 24.21" W)
Ground Level: 5,109.00 ft

Local Coordinate Origin:	Centered on Well 2-24-3-2WH
Viewing Datum:	RKB 18' @ 5127.0ft (Original Well Elev)
TVDs to System:	N
North Reference:	True
Unit System:	Class Units

Geodetic Scale Factor Applied
Version: 5000.1 Build: 61

HALLIBURTON

API Well Number: 43013519420000

Project: Duchesne County, UT
Site: Sec. 24-T3S-R2W
Well: 2-24-3-2WH
Wellbore: Plan A Rev 0 Permit
Design: Plan A Rev 0 Proposal - Permit Only

Newfield Exploration Company

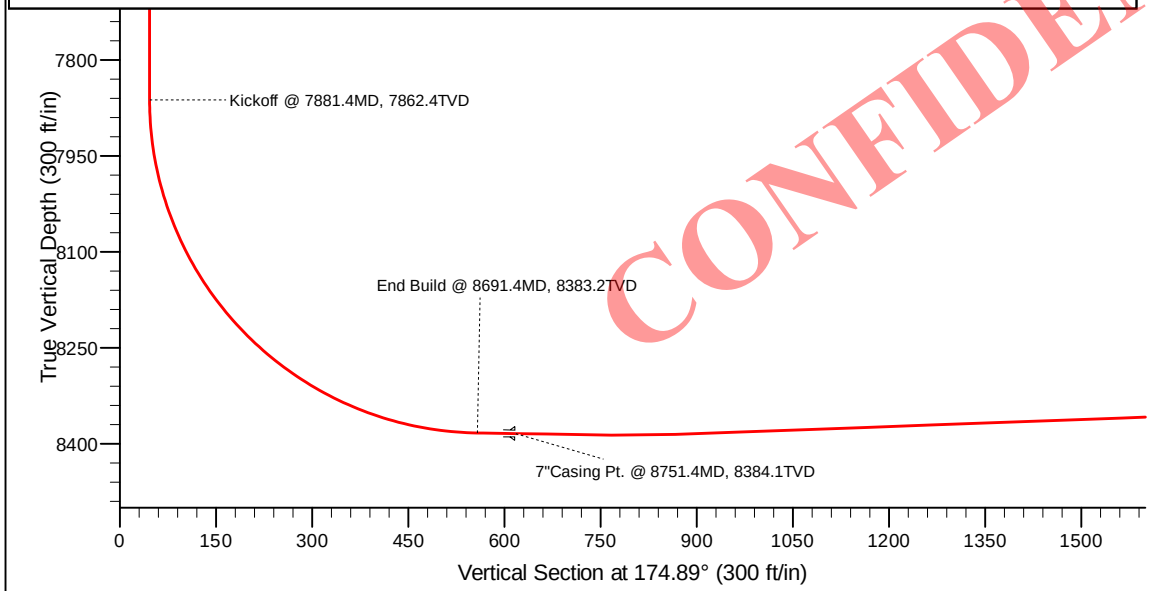
HALLIBURTON
Sperry Drilling

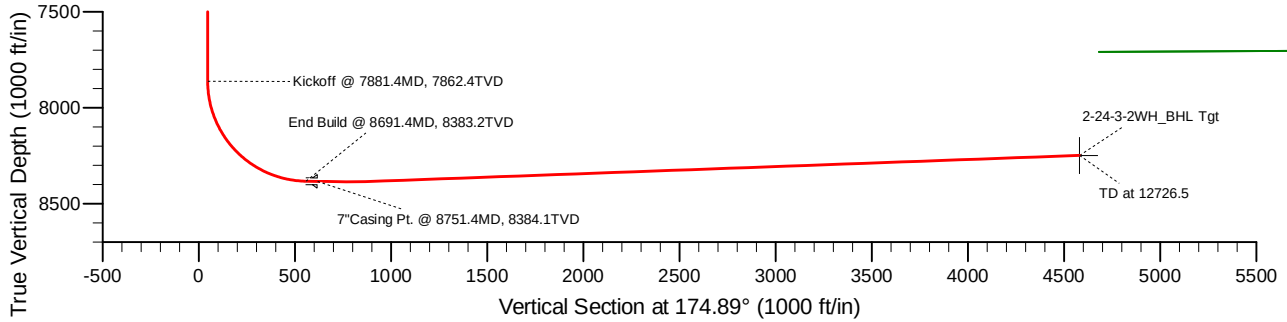
SECTION DETAILS

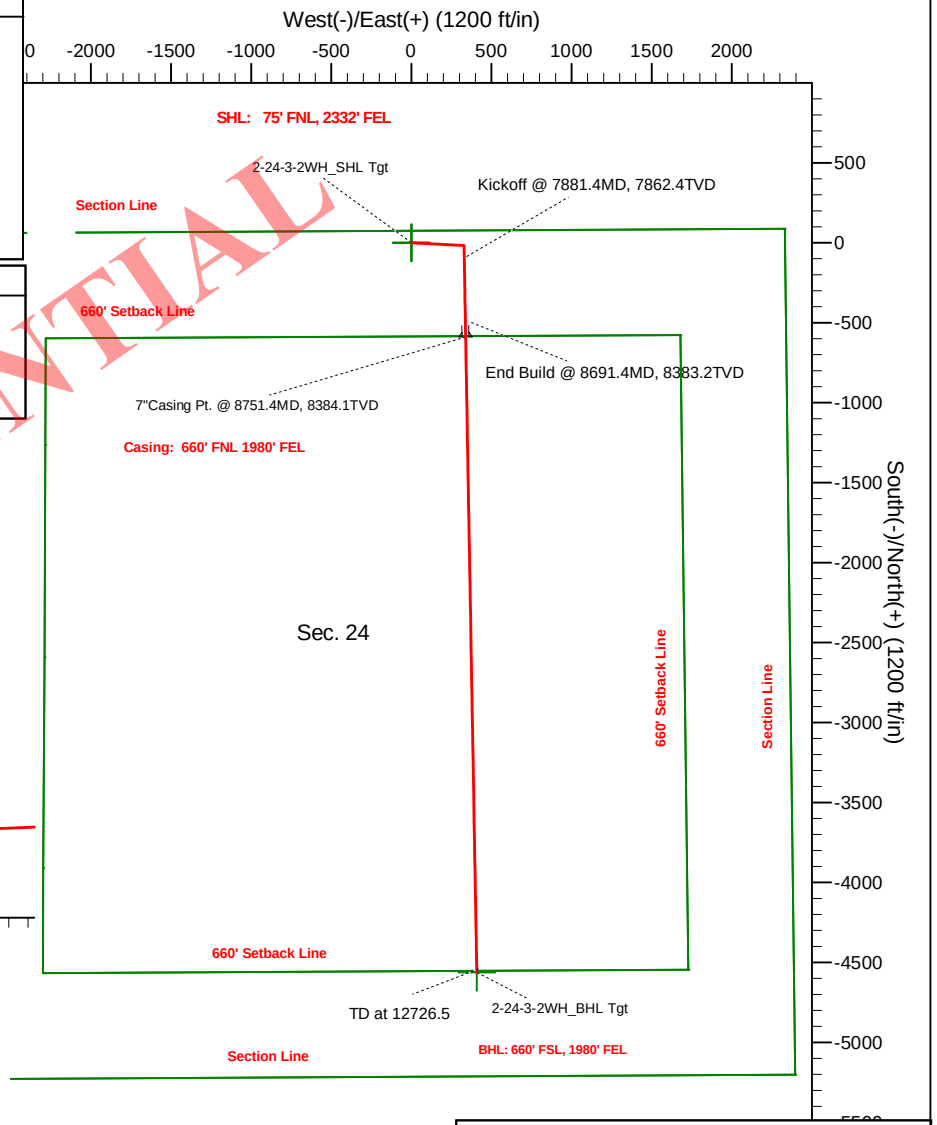
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3466.7	7.00	93.00	3465.5	-1.5	28.4	1.50	93.00	4.0	
4	5699.7	7.00	93.00	5681.9	-15.7	300.2	0.00	0.00	42.4	
5	6166.3	0.00	0.00	6147.4	-17.2	328.6	1.50	180.00	46.4	
6	7881.4	0.00	0.00	7862.4	-17.2	328.6	0.00	0.00	46.4	
7	8691.4	89.10	179.00	8383.2	-529.8	337.6	11.00	179.00	557.8	
8	8751.4	89.10	179.00	8384.1	-589.8	338.6	0.00	0.00	617.6	
9	8901.4	89.10	179.00	8386.5	-739.8	341.3	0.00	0.00	767.2	
10	9001.4	92.10	179.00	8385.5	-839.7	343.0	3.00	0.00	867.0	
11	12726.5	92.10	179.00	8249.0	-4561.8	408.1	0.00	0.00	4580.0	2-24-3-2WH_BHL Tgt

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
2-24-3-2WH_Section Lines	0.0	0.0	0.0	2209874.12	622844.65	40° 12' 53.380 N	110° 3' 24.210 W	Polygon
2-24-3-2WH_Setback Lines	0.0	0.0	0.0	2209874.12	622844.65	40° 12' 53.380 N	110° 3' 24.210 W	Polygon
2-24-3-2WH_SHL Tgt	0.0	0.0	0.0	2209874.12	622844.65	40° 12' 53.380 N	110° 3' 24.210 W	Point
2-24-3-2WH_BHL Tgt	8249.0	-4561.8	408.1	2208485.97	622991.46	40° 12' 8.300 N	110° 3' 18.950 W	Point







WELL DETAILS: 2-24-3-2WH

Ground Level: 5109.0

Northing	Easting	Latittude	Longitude
2209874.11	622844.65	40° 12' 53.380 N	110° 3' 24.210 W

Plan A Rev 0 Proposal - (2-24-3-2WH)

Created By: Ryan Sprague Date: 11/30/2012

Checked: _____ Date: _____

RECEIVED: December 21, 2012

Plan Report for 2-24-3-2WH - Plan A Rev 0 Proposal - Permit Only

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2-24-3-2WH_Section Lines - 2-24-3-2WH_Setback Lines - 2-24-3-2WH_SHL Tgt										
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
3,100.0	1.50	93.00	3,100.0	-0.1	1.3	0.2	1.50	1.50	0.00	93.00
3,200.0	3.00	93.00	3,199.9	-0.3	5.2	0.7	1.50	1.50	0.00	0.00
3,300.0	4.50	93.00	3,299.7	-0.6	11.8	1.7	1.50	1.50	0.00	0.00
3,400.0	6.00	93.00	3,399.3	-1.1	20.9	3.0	1.50	1.50	0.00	0.00
3,466.7	7.00	93.00	3,465.5	-1.5	28.4	4.0	1.50	1.50	0.00	0.00
3,500.0	7.00	93.00	3,498.6	-1.7	32.5	4.6	0.00	0.00	0.00	0.00
3,600.0	7.00	93.00	3,597.8	-2.3	44.7	6.3	0.00	0.00	0.00	0.00
3,700.0	7.00	93.00	3,697.1	-3.0	56.8	8.0	0.00	0.00	0.00	0.00
3,800.0	7.00	93.00	3,796.4	-3.6	69.0	9.8	0.00	0.00	0.00	0.00
3,900.0	7.00	93.00	3,895.6	-4.3	81.2	11.5	0.00	0.00	0.00	0.00
4,000.0	7.00	93.00	3,994.9	-4.9	93.3	13.2	0.00	0.00	0.00	0.00
4,100.0	7.00	93.00	4,094.1	-5.5	105.5	14.9	0.00	0.00	0.00	0.00
4,200.0	7.00	93.00	4,193.4	-6.2	117.7	16.6	0.00	0.00	0.00	0.00
4,300.0	7.00	93.00	4,292.6	-6.8	129.9	18.3	0.00	0.00	0.00	0.00
4,400.0	7.00	93.00	4,391.9	-7.4	142.0	20.1	0.00	0.00	0.00	0.00
4,500.0	7.00	93.00	4,491.1	-8.1	154.2	21.8	0.00	0.00	0.00	0.00
4,600.0	7.00	93.00	4,590.4	-8.7	166.4	23.5	0.00	0.00	0.00	0.00
4,700.0	7.00	93.00	4,689.6	-9.4	178.5	25.2	0.00	0.00	0.00	0.00
4,800.0	7.00	93.00	4,788.9	-10.0	190.7	26.9	0.00	0.00	0.00	0.00
4,900.0	7.00	93.00	4,888.2	-10.6	202.9	28.7	0.00	0.00	0.00	0.00
5,000.0	7.00	93.00	4,987.4	-11.3	215.0	30.4	0.00	0.00	0.00	0.00
5,100.0	7.00	93.00	5,086.7	-11.9	227.2	32.1	0.00	0.00	0.00	0.00
5,200.0	7.00	93.00	5,185.9	-12.5	239.4	33.8	0.00	0.00	0.00	0.00
5,300.0	7.00	93.00	5,285.2	-13.2	251.6	35.5	0.00	0.00	0.00	0.00
5,400.0	7.00	93.00	5,384.4	-13.8	263.7	37.3	0.00	0.00	0.00	0.00
5,500.0	7.00	93.00	5,483.7	-14.5	275.9	39.0	0.00	0.00	0.00	0.00

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Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
5,600.0	7.00	93.00	5,582.9	-15.1	288.1	40.7	0.00	0.00	0.00	0.00
5,699.7	7.00	93.00	5,681.9	-15.7	300.2	42.4	0.00	0.00	0.00	0.00
5,800.0	5.49	93.00	5,781.6	-16.3	311.1	44.0	1.50	-1.50	0.00	180.00
5,900.0	3.99	93.00	5,881.3	-16.7	319.4	45.1	1.50	-1.50	0.00	180.00
6,000.0	2.49	93.00	5,981.1	-17.0	325.0	45.9	1.50	-1.50	0.00	180.00
6,100.0	0.99	93.00	6,081.0	-17.2	328.1	46.4	1.50	-1.50	0.00	180.00
6,166.3	0.00	0.00	6,147.4	-17.2	328.6	46.4	1.50	-1.50	0.00	-180.00
6,200.0	0.00	0.00	6,181.0	-17.2	328.6	46.4	0.00	0.00	0.00	0.00
6,300.0	0.00	0.00	6,281.0	-17.2	328.6	46.4	0.00	0.00	0.00	0.00
6,400.0	0.00	0.00	6,381.0	-17.2	328.6	46.4	0.00	0.00	0.00	0.00
6,500.0	0.00	0.00	6,481.0	-17.2	328.6	46.4	0.00	0.00	0.00	0.00
6,600.0	0.00	0.00	6,581.0	-17.2	328.6	46.4	0.00	0.00	0.00	0.00
6,700.0	0.00	0.00	6,681.0	-17.2	328.6	46.4	0.00	0.00	0.00	0.00
6,800.0	0.00	0.00	6,781.0	-17.2	328.6	46.4	0.00	0.00	0.00	0.00
6,900.0	0.00	0.00	6,881.0	-17.2	328.6	46.4	0.00	0.00	0.00	0.00
7,000.0	0.00	0.00	6,981.0	-17.2	328.6	46.4	0.00	0.00	0.00	0.00
7,100.0	0.00	0.00	7,081.0	-17.2	328.6	46.4	0.00	0.00	0.00	0.00
7,200.0	0.00	0.00	7,181.0	-17.2	328.6	46.4	0.00	0.00	0.00	0.00
7,300.0	0.00	0.00	7,281.0	-17.2	328.6	46.4	0.00	0.00	0.00	0.00
7,400.0	0.00	0.00	7,381.0	-17.2	328.6	46.4	0.00	0.00	0.00	0.00
7,500.0	0.00	0.00	7,481.0	-17.2	328.6	46.4	0.00	0.00	0.00	0.00
7,600.0	0.00	0.00	7,581.0	-17.2	328.6	46.4	0.00	0.00	0.00	0.00
7,700.0	0.00	0.00	7,681.0	-17.2	328.6	46.4	0.00	0.00	0.00	0.00
7,800.0	0.00	0.00	7,781.0	-17.2	328.6	46.4	0.00	0.00	0.00	0.00
7,881.4	0.00	0.00	7,862.4	-17.2	328.6	46.4	0.00	0.00	0.00	0.00
Kickoff @ 7881.4MD, 7862.4TVD										
7,900.0	2.05	179.00	7,881.0	-17.6	328.6	46.8	11.02	11.02	0.00	179.00
7,950.0	7.55	179.00	7,930.8	-21.7	328.7	50.9	11.00	11.00	0.00	0.00
8,000.0	13.05	179.00	7,980.0	-30.7	328.9	59.9	11.00	11.00	0.00	0.00
8,050.0	18.55	179.00	8,028.1	-44.3	329.1	73.4	11.00	11.00	0.00	0.00
8,100.0	24.05	179.00	8,074.7	-62.4	329.4	91.5	11.00	11.00	0.00	0.00
8,150.0	29.55	179.00	8,119.3	-85.0	329.8	114.0	11.00	11.00	0.00	0.00
8,200.0	35.05	179.00	8,161.5	-111.7	330.3	140.7	11.00	11.00	0.00	0.00
8,250.0	40.55	179.00	8,201.0	-142.3	330.8	171.2	11.00	11.00	0.00	0.00
8,300.0	46.05	179.00	8,237.4	-176.6	331.4	205.4	11.00	11.00	0.00	0.00
8,350.0	51.55	179.00	8,270.3	-214.2	332.1	242.9	11.00	11.00	0.00	0.00
8,400.0	57.05	179.00	8,299.5	-254.8	332.8	283.4	11.00	11.00	0.00	0.00
8,450.0	62.55	179.00	8,324.6	-297.9	333.5	326.5	11.00	11.00	0.00	0.00
8,500.0	68.05	179.00	8,345.5	-343.3	334.3	371.8	11.00	11.00	0.00	0.00
8,550.0	73.55	179.00	8,361.9	-390.5	335.2	418.8	11.00	11.00	0.00	0.00
8,600.0	79.05	179.00	8,373.8	-439.1	336.0	467.3	11.00	11.00	0.00	0.00
8,650.0	84.55	179.00	8,380.9	-488.6	336.9	516.6	11.00	11.00	0.00	0.00
8,691.4	89.10	179.00	8,383.2	-529.9	337.6	557.8	10.99	10.99	0.00	0.00
End Build @ 8691.4MD, 8383.2TVD										
8,700.0	89.10	179.00	8,383.3	-538.5	337.7	566.4	0.00	0.00	0.00	0.00
8,751.4	89.10	179.00	8,384.1	-589.9	338.6	617.7	0.00	0.00	0.00	0.00
7"Casing Pt. @ 8751.4MD, 8384.1TVD										
8,800.0	89.10	179.00	8,384.9	-638.4	339.5	666.2	0.00	0.00	0.00	0.00
8,901.4	89.10	179.00	8,386.5	-739.8	341.3	767.2	0.00	0.00	0.00	0.00
9,001.4	92.10	179.00	8,385.5	-839.7	343.0	867.0	3.00	3.00	0.00	0.00
9,100.0	92.10	179.00	8,381.8	-938.3	344.7	965.3	0.00	0.00	0.00	0.00
9,200.0	92.10	179.00	8,378.2	-1,038.2	346.5	1,065.0	0.00	0.00	0.00	0.00
9,300.0	92.10	179.00	8,374.5	-1,138.1	348.2	1,164.6	0.00	0.00	0.00	0.00
9,400.0	92.10	179.00	8,370.9	-1,238.1	350.0	1,264.3	0.00	0.00	0.00	0.00
9,500.0	92.10	179.00	8,367.2	-1,338.0	351.7	1,364.0	0.00	0.00	0.00	0.00
9,600.0	92.10	179.00	8,363.5	-1,437.9	353.5	1,463.7	0.00	0.00	0.00	0.00
9,700.0	92.10	179.00	8,359.9	-1,537.8	355.2	1,563.3	0.00	0.00	0.00	0.00
9,800.0	92.10	179.00	8,356.2	-1,637.7	357.0	1,663.0	0.00	0.00	0.00	0.00
9,900.0	92.10	179.00	8,352.5	-1,737.6	358.7	1,762.7	0.00	0.00	0.00	0.00

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Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
10,000.0	92.10	179.00	8,348.9	-1,837.6	360.5	1,862.4	0.00	0.00	0.00	0.00
10,100.0	92.10	179.00	8,345.2	-1,937.5	362.2	1,962.0	0.00	0.00	0.00	0.00
10,200.0	92.10	179.00	8,341.5	-2,037.4	364.0	2,061.7	0.00	0.00	0.00	0.00
10,300.0	92.10	179.00	8,337.9	-2,137.3	365.7	2,161.4	0.00	0.00	0.00	0.00
10,400.0	92.10	179.00	8,334.2	-2,237.2	367.5	2,261.1	0.00	0.00	0.00	0.00
10,500.0	92.10	179.00	8,330.5	-2,337.1	369.2	2,360.7	0.00	0.00	0.00	0.00
10,600.0	92.10	179.00	8,326.9	-2,437.1	371.0	2,460.4	0.00	0.00	0.00	0.00
10,700.0	92.10	179.00	8,323.2	-2,537.0	372.7	2,560.1	0.00	0.00	0.00	0.00
10,800.0	92.10	179.00	8,319.5	-2,636.9	374.5	2,659.8	0.00	0.00	0.00	0.00
10,900.0	92.10	179.00	8,315.9	-2,736.8	376.2	2,759.4	0.00	0.00	0.00	0.00
11,000.0	92.10	179.00	8,312.2	-2,836.7	378.0	2,859.1	0.00	0.00	0.00	0.00
11,100.0	92.10	179.00	8,308.6	-2,936.7	379.7	2,958.8	0.00	0.00	0.00	0.00
11,200.0	92.10	179.00	8,304.9	-3,036.6	381.5	3,058.5	0.00	0.00	0.00	0.00
11,300.0	92.10	179.00	8,301.2	-3,136.5	383.2	3,158.2	0.00	0.00	0.00	0.00
11,400.0	92.10	179.00	8,297.6	-3,236.4	384.9	3,257.8	0.00	0.00	0.00	0.00
11,500.0	92.10	179.00	8,293.9	-3,336.3	386.7	3,357.5	0.00	0.00	0.00	0.00
11,600.0	92.10	179.00	8,290.2	-3,436.2	388.4	3,457.2	0.00	0.00	0.00	0.00
11,700.0	92.10	179.00	8,286.6	-3,536.2	390.2	3,556.9	0.00	0.00	0.00	0.00
11,800.0	92.10	179.00	8,282.9	-3,636.1	391.9	3,656.5	0.00	0.00	0.00	0.00
11,900.0	92.10	179.00	8,279.2	-3,736.0	393.7	3,756.2	0.00	0.00	0.00	0.00
12,000.0	92.10	179.00	8,275.6	-3,835.9	395.4	3,855.9	0.00	0.00	0.00	0.00
12,100.0	92.10	179.00	8,271.9	-3,935.8	397.2	3,955.6	0.00	0.00	0.00	0.00
12,200.0	92.10	179.00	8,268.2	-4,035.7	398.9	4,055.2	0.00	0.00	0.00	0.00
12,300.0	92.10	179.00	8,264.6	-4,135.7	400.7	4,154.9	0.00	0.00	0.00	0.00
12,400.0	92.10	179.00	8,260.9	-4,235.6	402.4	4,254.6	0.00	0.00	0.00	0.00
12,500.0	92.10	179.00	8,257.3	-4,335.5	404.2	4,354.3	0.00	0.00	0.00	0.00
12,600.0	92.10	179.00	8,253.6	-4,435.4	405.9	4,453.9	0.00	0.00	0.00	0.00
12,700.0	92.10	179.00	8,249.9	-4,535.3	407.7	4,553.6	0.00	0.00	0.00	0.00
12,726.5	92.10	179.00	8,249.0	-4,561.8	408.1	4,580.0	0.00	0.00	0.00	0.00
TD at 12726.5 - 2-24-3-2WH_BHL Tgt										

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
7,881.4	7,862.4	0.0	0.0	Kickoff @ 7881.4MD, 7862.4TVD
8,691.4	8,383.2	-1.5	28.4	End Build @ 8691.4MD, 8383.2TVD
8,751.4	8,384.1	-15.7	300.2	7"Casing Pt. @ 8751.4MD, 8384.1TVD
12,726.5	8,249.0	-17.2	328.6	TD at 12726.5

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (ft)	Origin +E/-W (ft)	Start TVD (ft)
Target	2-24-3-2WH_BHL Tgt	174.89	Slot	0.0	0.0	0.0

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.0	12,726.5	Plan A Rev 0 Proposal - Permit Only	MWD

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Plan Report for 2-24-3-2WH - Plan A Rev 0 Proposal - Permit Only

Casing Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
8,750.2	8,384.1	7"	7.000	7.500

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
2-24-3-2WH_Section Lines	0.0	0.0	0.0	Polygon
2-24-3-2WH_BHL Tgt	8,249.0	-4,561.8	408.1	Point
2-24-3-2WH_Setback Lines	0.0	0.0	0.0	Polygon
2-24-3-2WH_SHL Tgt	0.0	0.0	0.0	Point

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Newfield Exploration Company

HALLIBURTON

Duchesne County, UT

North Reference Sheet for Sec. 24-T3S-R2W - 2-24-3-2WH - Plan A Rev 0 Permit

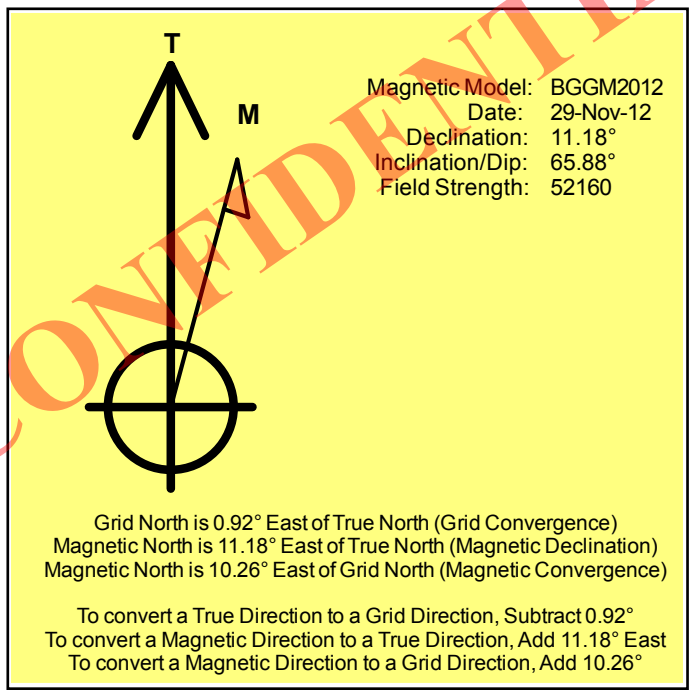
All data is in Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.
Vertical Depths are relative to RKB 18' @ 5127.0ft (Original Well Elev). Northing and Easting are relative to 2-24-3-2WH
Coordinate System is US State Plane 1983, Utah Central Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Lambert Conformal Conic (2 parallel)
Central Meridian is -111.50°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:40° 39' 0.000 N°
False Easting: 500,000.00m, False Northing: 2,000,000.00m, Scale Reduction: 0.99992075

Grid Coordinates of Well: 2,209,874.11 m N, 622,844.65 m E
Geographical Coordinates of Well: 40° 12' 53.38" N, 110° 03' 24.21" W
Grid Convergence at Surface is: 0.92°

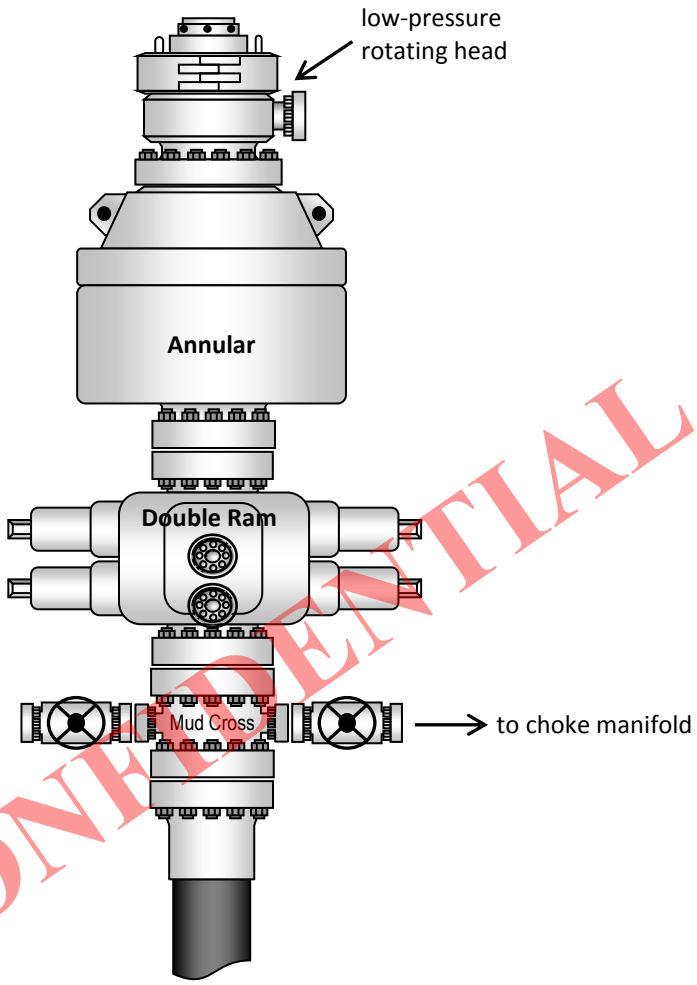
Based upon Minimum Curvature type calculations, at a Measured Depth of 12,726.50ft
the Bottom Hole Displacement is 4,580.03ft in the Direction of 174.89° (True).

Magnetic Convergence at surface is: -10.26° (29 November 2012, , BGGM2012)

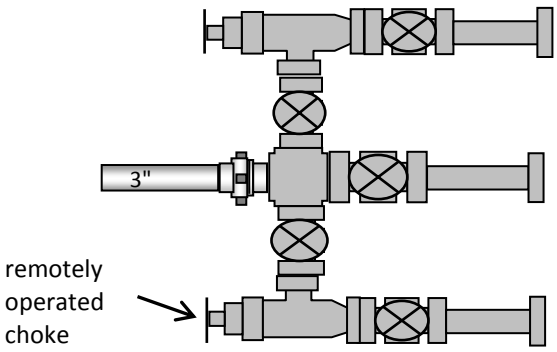


RECEIVED: December 21, 2012

Typical 5M BOP stack configuration



Typical 5M choke manifold configuration



RECEIVED: December 21, 2012

API Well Number: 43013519420000

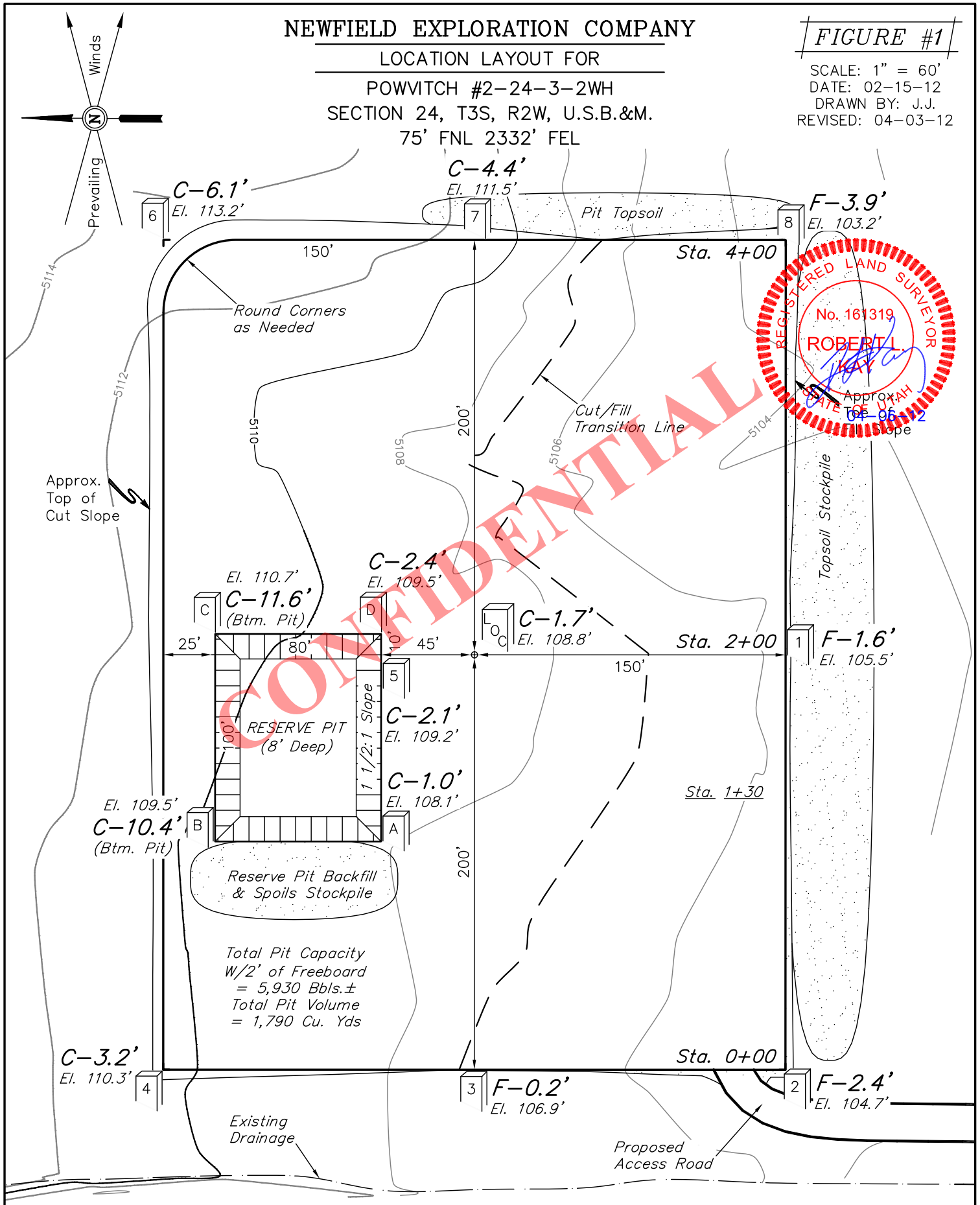
NEWFIELD EXPLORATION COMPANY

LOCATION LAYOUT FOR

POWVITCH #2-24-3-2WH
SECTION 24, T3S, R2W, U.S.B.&M.
75' FNL 2332' FEL

FIGURE #1

SCALE: 1" = 60'
DATE: 02-15-12
DRAWN BY: J.J.
REVISED: 04-03-12



REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH
Approx. Toe of Fill Slope

Elev. Ungraded Ground At Loc. Stake = 5108.8'
FINISHED GRADE ELEV. AT LOC. STAKE = 5107.1'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: December 21, 2012

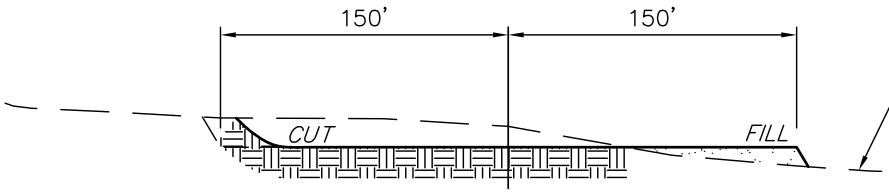
NEWFIELD EXPLORATION COMPANY

TYPICAL CROSS SECTIONS FOR

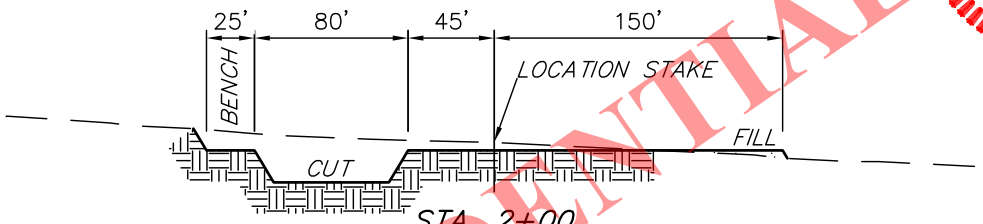
POWVITCH #2-24-3-2WH
SECTION 24, T3S, R2W, U.S.B.&M.
75' FNL 2332' FEL

FIGURE #2

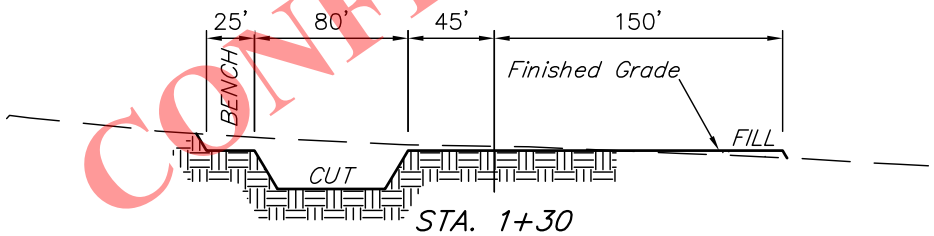
1" = 40' X-Section Scale
1" = 100'
DATE: 02-15-12
DRAWN BY: J.J.
REVISED: 04-03-12



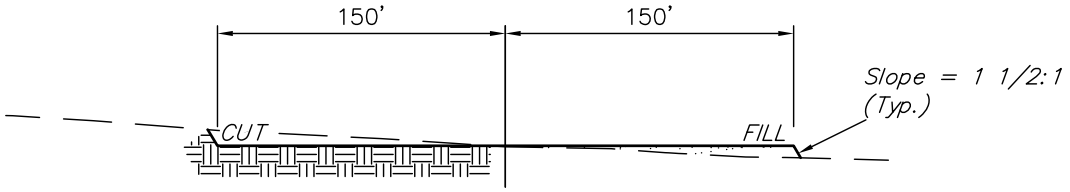
STA. 4+00



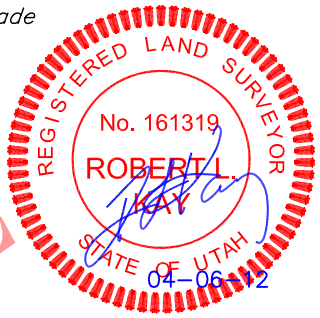
STA. 2+00



STA. 1+30



STA. 0+00



NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 4.591 ACRES
ACCESS ROAD DISTURBANCE = ± 0.701 ACRES
PIPELINE DISTURBANCE = ± 1.195 ACRES
TOTAL = ± 6.487 ACRES

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(12") Topsoil Stripping	=	4,740 Cu. Yds.
Remaining Location	=	5,390 Cu. Yds.
TOTAL CUT	=	10,130 CU.YDS.
FILL	=	4,490 CU.YDS.

EXCESS MATERIAL	=	5,640 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	5,640 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: December 21, 2012

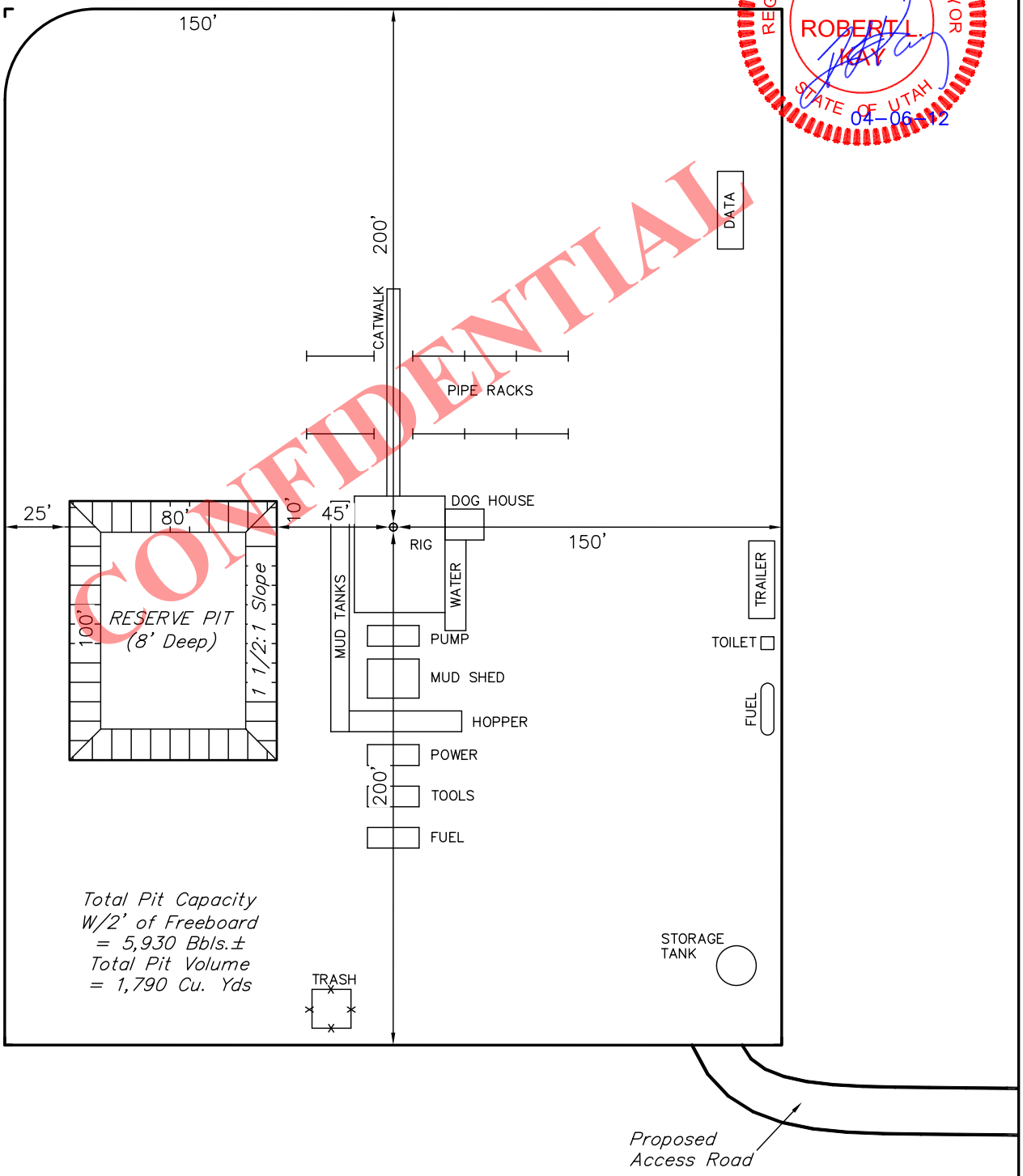
NEWFIELD EXPLORATION COMPANY

TYPICAL RIG LAYOUT FOR

POWVITCH #2-24-3-2WH
SECTION 24, T3S, R2W, U.S.B.&M.
75' FNL 2332' FEL

FIGURE #3
SCALE: 1" = 60'
DATE: 02-15-12
DRAWN BY: J.J.
REVISED: 04-03-12

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH
04-06-12



UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: December 21, 2012

NEWFIELD EXPLORATION COMPANY

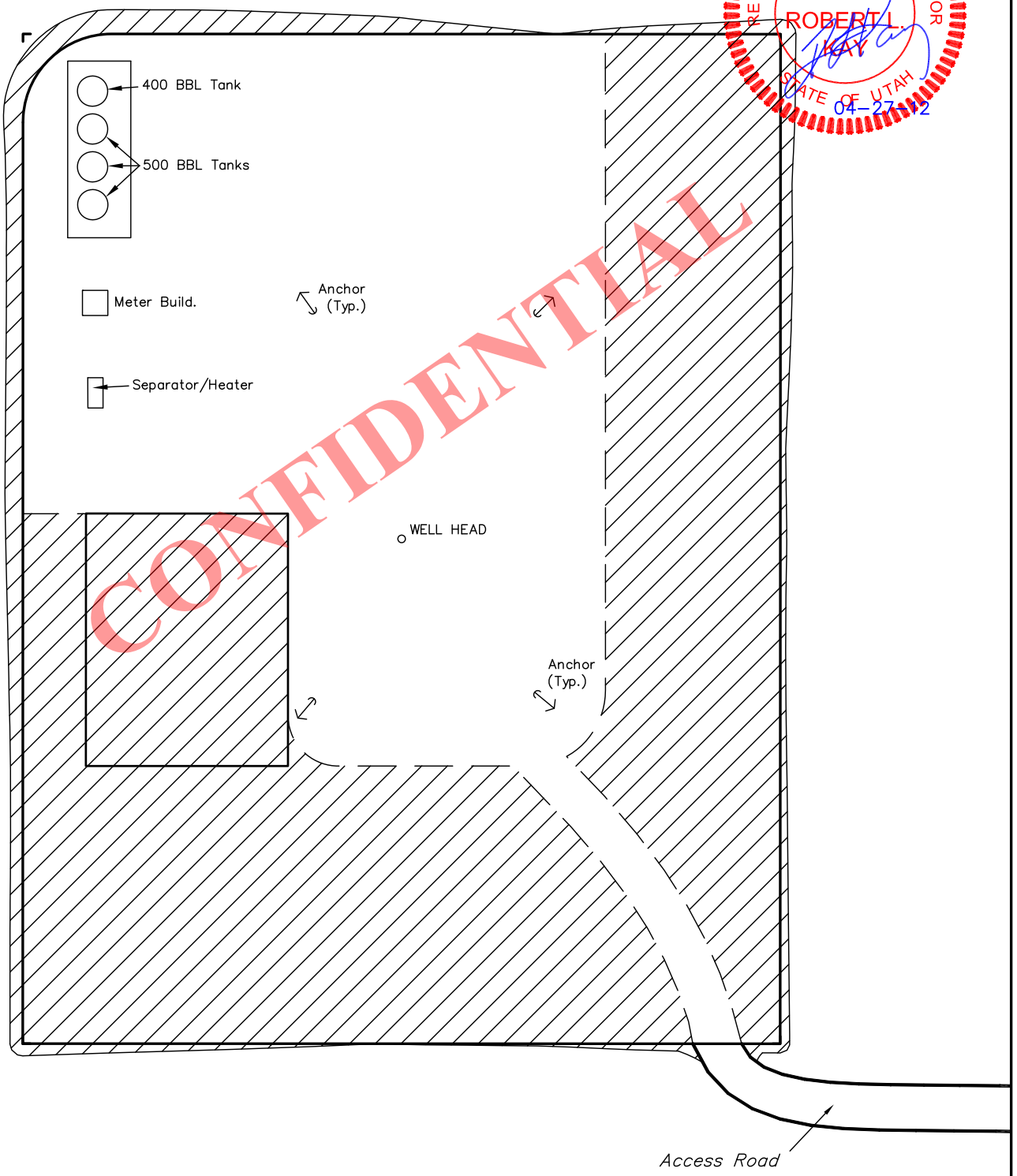
PRODUCTION FACILITY LAYOUT FOR

POWVITCH #2-24-3-2WH
SECTION 24, T3S, R2W, U.S.B.&M.
75' FNL 2332' FEL

FIGURE #4

SCALE: 1" = 60'
DATE: 02-15-12
DRAWN BY: J.J.
REVISED: 04-03-12
REVISED: 04-27-12

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH
04-27-12



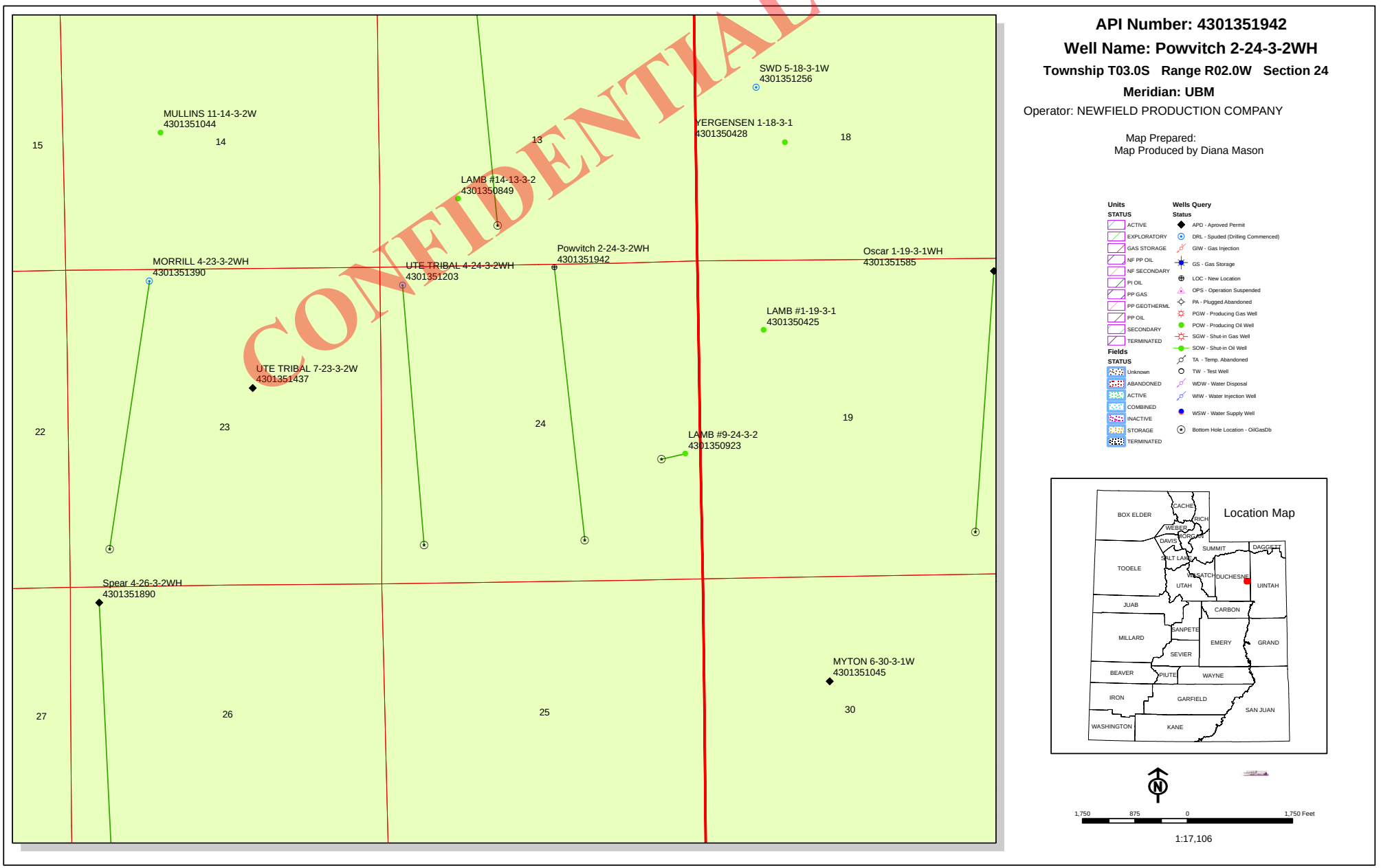
RECLAIMED AREA

APPROXIMATE ACREAGES
UN-RECLAIMED = ± 1.338 ACRES

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: December 21, 2012

API Well Number: 43013519420000



API Number: 4301351942

Well Name: Powvitch 2-24-3-2WH

Township T03.0S Range R02.0W Section 24

Meridian: UBM

Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
ACTIVE
EXPLORATORY
GAS STORAGE
NF PP OIL
NF SECONDARY
PI OIL
PP GAS
PP GEOTHERML
PP OIL
SECONDARY
TERMINATED

Fields
STATUS
Unknown
ABANDONED
ACTIVE
COMBINED
INACTIVE
STORAGE
TERMINATED

Wells Query
Status
APD - Aproved Permit
DRL - Spuded (Drilling Commenced)
GIW - Gas Injection
GS - Gas Storage
LOC - New Location
OPS - Operation Suspended
PA - Plugged Abandoned
PGW - Producing Gas Well
POW - Producing Oil Well
SGW - Shut-in Gas Well
SOW - Shut-in Oil Well
TA - Temp. Abandoned
TW - Test Well
WDW - Water Disposal
WIW - Water Injection Well
WSW - Water Supply Well
Bottom Hole Location - OilGasDb

1,750 875 0 1,750 Feet

1:17,106

RECEIVED: December 27, 2012

NEWFIELD
ROCKY MOUNTAINS

January 7, 2013

State of Utah
Division of Oil, Gas & Mining
ATTN: Brad Hill
P O Box 145801
Salt Lake City, UT 84114

RE: **Powvitch 2-24-3-2WH**
Section 24, T3S, R2W
Duchesne County, Utah

Dear Brad,

Newfield Production Company ("Newfield") proposes to drill the Powvitch 2-24-3-2WH from a surface location of 75' FNL & 2,332' FEL of Section 24, T3S, R2W to a bottom hole location of 660' FSL & 1,980' FEL of Section 24, T3S, R2W. Newfield shall case and cement the Powvitch 2-24-3-2WH wellbore from the surface location to the point where the wellbore reaches the legal setback of 660' FNL of Section 24, T3S, R2W. The cased and cemented portion of the wellbore shall not be perforated nor produced. In the event a future recompletion into the cased and cemented portion of the wellbore is proposed, Newfield shall file the appropriate application with the State.

Newfield is the operator of the Lamb 14-13-3-2 located in the northern offset drilling and spacing unit (Section 13, T3S-R2W). Due to these circumstances, Newfield respectfully requests that DOGM administratively grant an exception location for the Powvitch 2-24-3-2WH.

If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-383-4169 or by email at kharris@newfield.com . Your consideration of this matter is greatly appreciated.

Sincerely,

Kenneth M. Harris
Landman

1001 17th Street, Suite 2000 Denver, CO 80202 (303) 893-0102 Fax (303) 893-0103

API Well Number: 43013519420000

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/21/2012 **API NO. ASSIGNED:** 43013519420000

WELL NAME: Powvitch 2-24-3-2WH

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695) **PHONE NUMBER:** 435 719-2018

CONTACT: Don Hamilton

PROPOSED LOCATION: NWNE 24 030S 020W **Permit Tech Review:** ☑

SURFACE: 0075 FNL 2332 FEL **Engineering Review:** ☐

BOTTOM: 0660 FSL 1980 FEL **Geology Review:** ☑

COUNTY: DUCHESNE

LATITUDE: 40.21491 **LONGITUDE:** -110.05682

UTM SURF EASTINGS: 580257.00 **NORTHINGS:** 4452037.00

FIELD NAME: WILDCAT

LEASE TYPE: 2 - Indian

LEASE NUMBER: 14-20-H62-6176 **PROPOSED PRODUCING FORMATION(S):** GREEN RIVER

SURFACE OWNER: 2 - Indian **COALBED METHANE:** NO

RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** INDIAN - RLB0010462
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** 437478
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit:

- ☐ **R649-3-2. General**
- ☑ **R649-3-3. Exception**
- ☑ **Drilling Unit**

Board Cause No: Cause 139-90

Effective Date: 5/9/2012

Siting: 4 Prod LGRRV-WSTC Wells

- ☐ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
1 - Exception Location - bhill
4 - Federal Approval - dmason
27 - Other - bhill

RECEIVED: January 16, 2013

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: Powvitch 2-24-3-2WH
API Well Number: 43013519420000
Lease Number: 14-20-H62-6176
Surface Owner: INDIAN
Approval Date: 1/16/2013

Issued to:
NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

Authority:
Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-90. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Exception Location:
Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284
(please leave a voicemail message if not available)
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at http://oilgas.ogm.utah.gov

Reporting Requirements:
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

• Entity Action Form (Form 6) - due within 5 days of spudding the well
• Monthly Status Report (Form 9) - due by 5th day of the following calendar month
• Requests to Change Plans (Form 9) - due prior to implementation
• Written Notice of Emergency Changes (Form 9) - due within 5 days
• Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
• Report of Water Encountered (Form 7) - due within 30 days after completion
• Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

For John Rogers
Associate Director, Oil & Gas

Form 3160-3
(August 2007)

RECEIVED
DEC 2 8 2012
BLM

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

CONFIDENTIAL

1a. Type of Work: ☒ DRILL ☐ REENTER	5. Lease Serial No. 1420H626176
	6. If Indian, Allottee or Tribe Name UINTAH AND OURAY
	7. If Unit or CA Agreement, Name and No.
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone	8. Lease Name and Well No. POWVITCH 2-24-3-2WH
2. Name of Operator NEWFIELD EXPLORATION COMPANY Contact: DON S HAMILTON Email: starpoint@etv.net	9. API Well No. 43-013-51942.
3a. Address ROUTE 3 BOX 3630 MYTON, UT 84052 / 3b. Phone No. (include area code) Ph: 435-719-2018 Fx: 435-719-2019	10. Field and Pool, or Exploratory NATURAL BUTTES
4. Location of Well *(Report location clearly and in accordance with any State requirements.*)* At surface NWNE 75FNL 2332FEL 40.214828 N Lat, 110.056725 W Lon At proposed prod. zone Lot 2 660FSL 1980FEL 40.202306 N Lat, 110.055264 W Lon	11. Sec., T., R., M., or Blk. and Survey or Area Sec 24 T3S R2W Mer UBM
14. Distance in miles and direction from nearest town or post office* 1.7 MILES NORTHEAST OF MYTON, UTAH	12. County or Parish DUCHESNE / 13. State UT
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 75 / 16. No. of Acres in Lease 120.00	17. Spacing Unit dedicated to this well 40.00
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 0 / 19. Proposed Depth 12726 MD 8249 TVD	20. BLM/BIA Bond No. on file RLB0010462
21. Elevations (Show whether DF, KB, RT, GL, etc. 5109 GL / 22. Approximate date work will start 01/15/2103	23. Estimated duration 60 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) DON S HAMILTON Ph: 435-719-2018	Date 12/21/2012
Title PERMITTING AGENT		
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczka	Date APR 11 2013
Title ~~Assistant Field Manager~~ Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached. CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

RECEIVED
APR 16 2013
DIV. OF OIL, GAS & MINING

Electronic Submission #168621 verified by the BLM Well Information System
For NEWFIELD EXPLORATION COMPANY, sent to the Vernal
Committed to AFMSS for processing by ROBIN R. HANSEN on 01/04/2013 (13RRH3566AE)

NOTICE OF APPROVAL

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-4400

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**Newfield Production Company**	**Location:**	**NWNE, Sec. 24,T3S, R2W**
Well No:	**Powvitch 2-24-3-2WH**	**Lease No:**	**14-20-H62-6176**
API No:	**43-013-51942**	**Agreement:**	

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to blm_ut_vn_opreport@blm.gov.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

- All Applicant-Committed Environmental Protection Measures (ACEPMs) listed in Section 2.1.8 of Environmental Assessment No. U&O-FY13-Q1-021,

- All on ACEPMs page 5 of the *Final Biological Opinion for Newfield Exploration Company and Ute Energy, LLC's proposed Rocky Point Exploration and Development* (Rocky Point BO) dated March 20, 2012,

- All terms and conditions of the Rocky Point BO and

- Any and all additional terms or stipulations attached to BIA ROW Serial No. H62-2013-119 and BIA ROW Serial No. H62-2013-120.

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- Intermediate casing (size casing 7 inch) cement shall be brought up and into the surface.
- Surface casing cement shall be brought to surface.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB

or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.

- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.

    - Well name and number.

    - Well location (¼¼, Sec., Twn, Rng, and P.M.).

    - Date well was placed in a producing status (date of first production for which royalty will be paid).

    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).

    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.

    - Unit agreement and/or participating area name and number, if applicable.

    - Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-6176

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: POWVITCH 15-13-12-3-2WB

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013519420000

3. ADDRESS OF OPERATOR: 1001 17th Street, Suite 2000 , Denver, CO, 80202

PHONE NUMBER: 303 382-4443 Ext

9. FIELD and POOL or WILDCAT: NORTH MYTON BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0075 FNL 2332 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 24 Township: 03.0S Range: 02.0W Meridian: U

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 9/1/2015	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

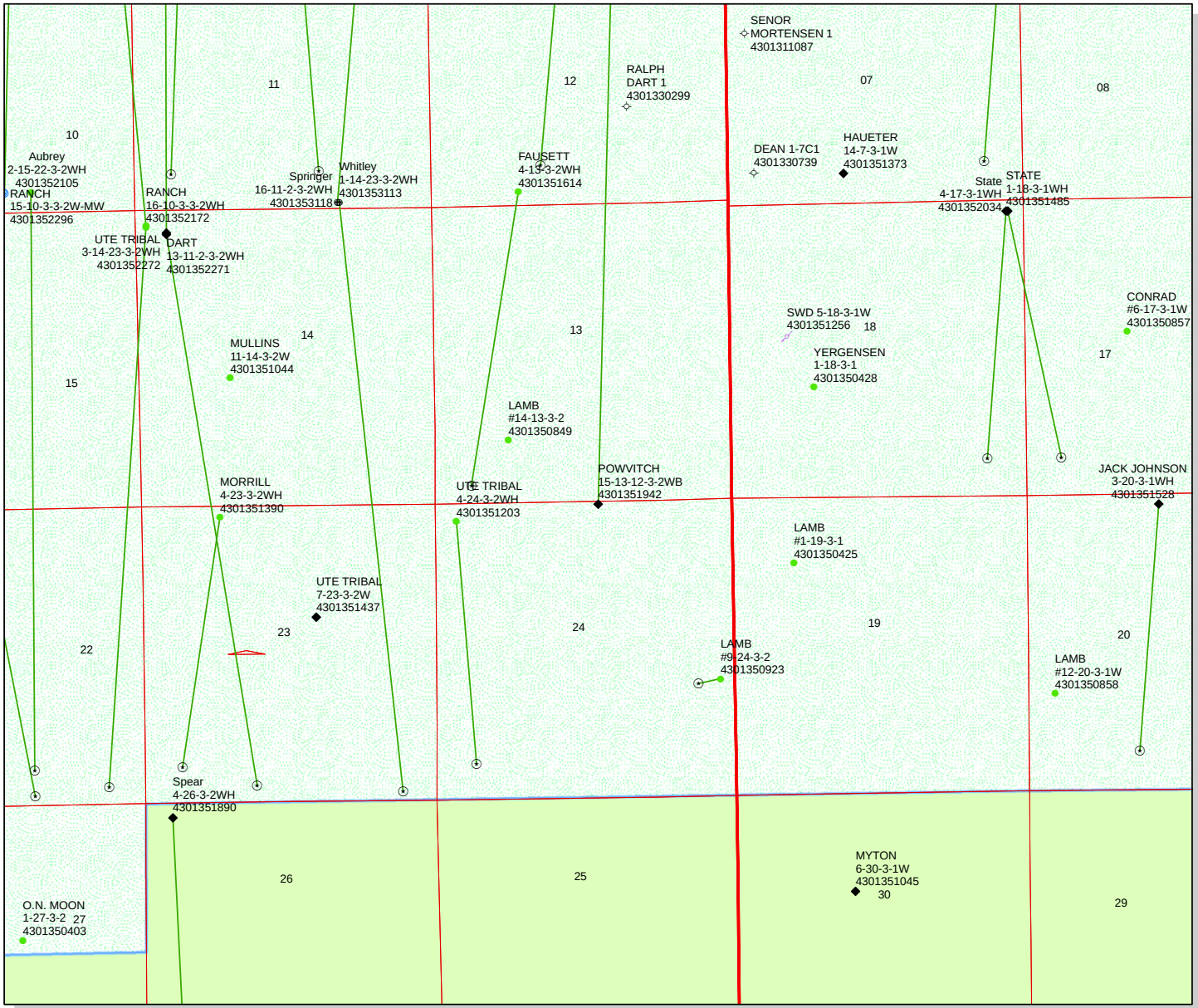
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Newfield Production Company respectfully requests that the Powvitch 2-24-3-2WH (tribal surface and mineral) be changed from a 640 horizontal lateral well to a 1280 horizontal lateral well and that the well name be changed to the Powvitch 15-13-12-3-2WB (see attached supplemental information).

Approved by the Utah Board of Oil, Gas and Mining
September 11, 2014
Date:
By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Don Hamilton	435 719-2018	Permitting Agent (Star Point Enterprises, Inc.)
SIGNATURE N/A		**DATE** 8/25/2014

RECEIVED: Aug. 25, 2014



API Number: 4301351942

Well Name: POWVITCH 15-13-12-3-2WB

Township: T03.0S Range: R02.0W Section: 24 Meridian: U

Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared: 9/10/2014
Map Produced by Diana Mason

Wells Query

Status

- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well

Units

STATUS

- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields

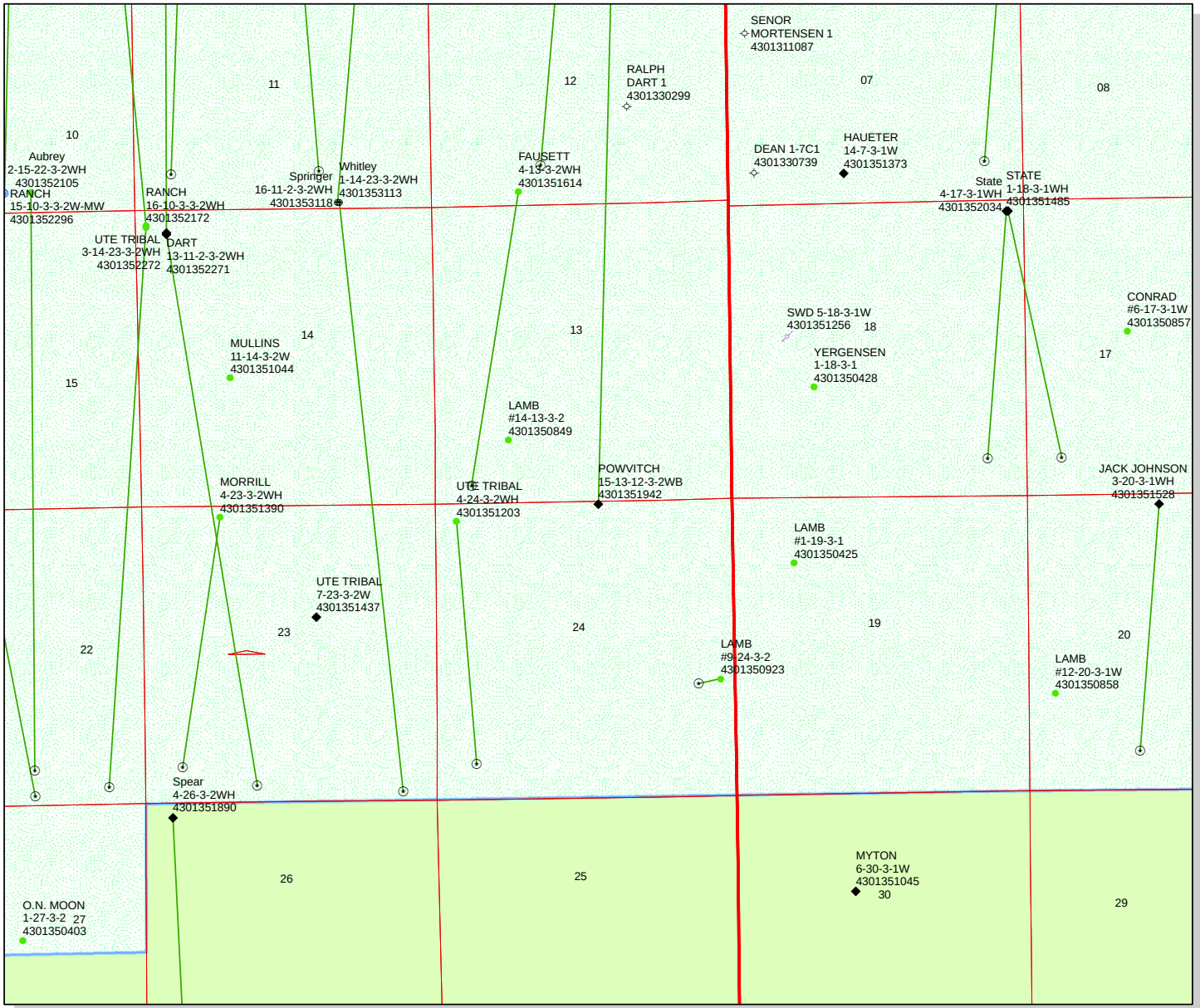
STATUS

- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED

2,300 1,150 0 2,300 Feet

1:22,103

RECEIVED: Sep. 10, 2014



API Number: 4301351942

Well Name: POWVITCH 15-13-12-3-2WB

Township: T03.0S Range: R02.0W Section: 24 Meridian: U

Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared: 9/10/2014
Map Produced by Diana Mason

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Status

- APD - Aproved Permit
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Units

STATUS

- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields

STATUS

- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED

2,300 1,150 0 2,300 Feet

1:22,103

RECEIVED: Sep. 11, 2014

Powvitch 15-13-12-3-2WB

Newfield Production Company respectfully requests that the Powvitch 2-24-3-2WH (tribal surface and mineral) be changed from a 640 horizontal lateral well to a 1280 horizontal lateral well and that the well name be changed to the Powvitch 15-13-12-3-2WB. The TVD will change from 8,249 to 8,581' and the MD will change from 12,726' to 17,836', surface location remains unchanged. Following are the updated locations along the intended well bore path:

- Surface Location: 75' FNL & 2332' FEL, NWNE, Section 24, T3S, R2W, USB&M. (unchanged from permitted);
- Top of Producing Interval: 660' FSL & 1980' FEL, SWSE, Section 13, T3S, R2W, USB&M;
- Bottom of Producing Interval: 660' FNL & 1980' FEL, NWNE, Section 12, T3S, R2W, USB&M.
- Bottom Hole: 525' FNL & 1980' FEL, NWNE, Section 12, T3S, R2W, USB&M.

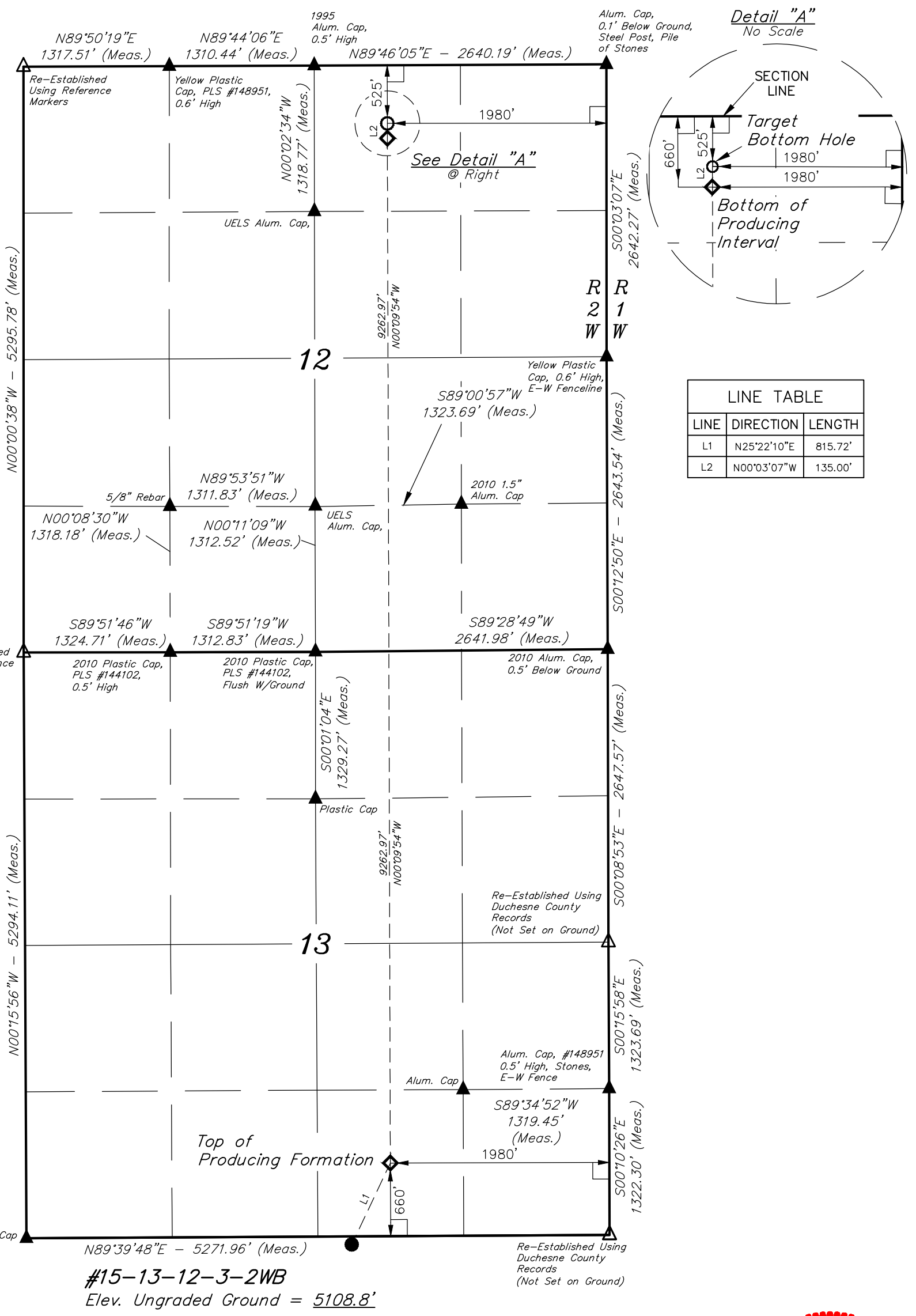
Attached please find an updated plat package, drilling plan, horizontal plan, exception letter and lease plat reflecting the changes. Surface use with the Ute Indian Tribe remains in place.

RECEIVED: Sep. 11, 2014

T3S, R2W, U.S.B.&M.

LEGEND:

- = 90° SYMBOL
- = PROPOSED WELLHEAD.
- = TARGET BOTTOM HOLE.
- = SECTION CORNERS LOCATED.
- = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)
- = LANDING POINT



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N25°22'10"E	815.72'
L2	N00°03'07"W	135.00'

1000' 500' 0' 1000'

NAD 83 (BOTTOM OF PRODUCING)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 40°14'32.17" (40.242269)	LATITUDE = 40°14'33.50" (40.242639)
LONGITUDE = 110°03'19.95" (110.055542)	LONGITUDE = 110°03'19.95" (110.055542)
NAD 27 (BOTTOM OF PRODUCING)	**NAD 27 (TARGET BOTTOM HOLE)**
LATITUDE = 40°14'32.32" (40.242311)	LATITUDE = 40°14'33.65" (40.242681)
LONGITUDE = 110°03'17.41" (110.054836)	LONGITUDE = 110°03'17.41" (110.054836)

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

07-28-14

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION

BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT THE SOUTHEAST CORNER OF SECTION 20, T3S, R2W, U.S.B.&M. TAKEN FROM THE MYTON, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5148 FEET.

N

NEWFIELD EXPLORATION COMPANY

#15-13-12-3-2WB (TARGET BOTTOM HOLE)
NW 1/4 NE 1/4, SECTION 24, T3S, R2W, U.S.B.&M.
DUCHESNE COUNTY, UTAH

SURVEYED BY: J.C., G.O.	SURVEY DATE: 02-10-12
DRAWN BY: J.J.	DATE DRAWN: 02-15-12
SCALE: 1" = 1000'	REVISED: 07-28-14 C.D.

WELL LOCATION PLAT

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

RECEIVED: Sep. 11, 2014

LEGEND:

= 90° SYMBOL

= PROPOSED WELLHEAD.

= TARGET BOTTOM HOLE.

= SECTION CORNERS LOCATED.

= SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)

T3S, R2W, U.S.B.&M.

Bottom of Producing Interval

S89°51'46"W 1324.71' (Meas.)

S89°51'19"W 1312.83' (Meas.)

S89°28'49"W 2641.98' (Meas.)

Re-Established Using Reference Markers

2010 Plastic Cap, PLS #144102, 0.5' High

2010 Plastic Cap, PLS #144102, Flush W/Ground

2010 Alum. Cap, 0.5' Below Ground

S00°01'04"E 1329.27' (Meas.)

S00°08'53"E - 2647.57' (Meas.)

Plastic Cap

9262.97' N00°09'54"W

N00°15'56"W - 5294.11' (Meas.)

Re-Established Using Duchesne County Records (Not Set on Ground)

13

S00°15'58"E 1323.69' (Meas.)

Alum. Cap

Alum. Cap, #148951 0.5' High, Stones, E-W Fence

S89°34'52"W 1319.45' (Meas.)

Top of Producing Formation

1980'

S00°10'26"E 1322.30' (Meas.)

75'

L1

660'

Alum. Cap

N89°39'48"E - 5271.96' (Meas.)

N89°39'48"E - 5271.96' (Meas.)

Re-Established Using Duchesne County Records (Not Set on Ground)

2332'

#15-13-12-3-2WB

Elev. Ungraded Ground = 5108.8'

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N25°22'10"E	815.72'

N00°10'49"E - 5291.64' (Meas.)

N00°44'25"W - 5290.83' (Meas.)

24

R 2 W

R 1 W

DUCHESNE RIVER

Lot 4

Lot 3

Lot 6

Lot 2

Lot 1

2005 Alum. Cap, 0.4' High

Lot 5

2005 Alum. Cap, 0.4' High

S89°44'59"W - 2798.72' (Meas.)

S89°43'42"W 1219.24' (Meas.)

S89°45'E - 128.70' (G.L.O.) True Position

S89°23'33"W - 1339.04' (Meas. to True)

W.C. 1997 Duchesne Alum. Cap, 0.9' High, Pile of Stones

Alum. Cap

1000' 500' 0' 1000'

NAD 83 (TOP OF PRODUCING)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°13'00.66" (40.216850)	LATITUDE = 40°12'53.38" (40.214828)
LONGITUDE = 110°03'19.69" (110.055469)	LONGITUDE = 110°03'24.21" (110.056725)
NAD 27 (TOP OF PRODUCING)	**NAD 27 (SURFACE LOCATION)**
LATITUDE = 40°13'00.80" (40.216889)	LATITUDE = 40°12'53.53" (40.214869)
LONGITUDE = 110°03'17.15" (110.054764)	LONGITUDE = 110°03'21.67" (110.056019)

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

07-28-14

REGISTERED LAND SURVEYOR 161319 STATE OF UTAH ROBERT L. KAY

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION

BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT THE SOUTHEAST CORNER OF SECTION 20, T3S, R2W, U.S.B.&M. TAKEN FROM THE MYTON, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5148 FEET.

N

NEWFIELD EXPLORATION COMPANY

#15-13-12-3-2WB (SURFACE LOCATION)
NW 1/4 NE 1/4, SECTION 24, T3S, R2W, U.S.B.&M.
DUCHESNE COUNTY, UTAH

SURVEYED BY: J.C., G.O.	SURVEY DATE: 02-10-12
DRAWN BY: J.J.	DATE DRAWN: 02-15-12
SCALE: 1" = 1000'	REVISED: 07-28-14 C.D.

WELL LOCATION PLAT

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

RECEIVED: Sep. 11, 2014

5D Plan Report

NEWFIELD

Field Name: *UTAH_ CENTRAL ZONE_NAD83*
Site Name: *15-13-12-3-2WB*
Well Name: *15-13-12-3-2WB*
Plan: *PLAN 4*

10 September 2014

RECEIVED: Sep. 11, 2014

Sundry Number: 54774 API Well Number: 43013519420000

Plan Data for 15-13-12-3-2WB

Field: UTAH_ CENTRAL ZONE_NAD83
Map Unit: USFt Vertical Reference Datum (VRD):
Projected Coordinate System: NAD83 / Utah Central (ftUS)

Site: 15-13-12-3-2WB
Unit: USFeet TVD Reference:
Company Name: NEWFIELD
Position: Northing: 7250228.76USft Latitude: 40.214828°
  Easting: 2043449.51USft Longitude: -110.056725°
North Reference: True Grid Convergence: 0.92°
Elevation Above VRD: 5107.00USft

Slot: 15-13-12-3-2WB
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 7250228.76USft Latitude: 40.214828°
+E/-W: 0.00USft Easting: 2043449.51USft Longitude: -110.056725°
Elevation Above VRD: 5107.00USft

Well: 15-13-12-3-2WB
Type: Main-Well
File Number:
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Azimuth: 1.87°
+E/-W: 0.00USft
Magnetic Parameters:

Model	Field Strength	Declination	Dip	Date
BGGM	51971(nT)	11.05°	65.85°	2014-09-10

Plan Point Information:
DogLeg Severity Unit: °/100.00ft Position offsets from Slot centre

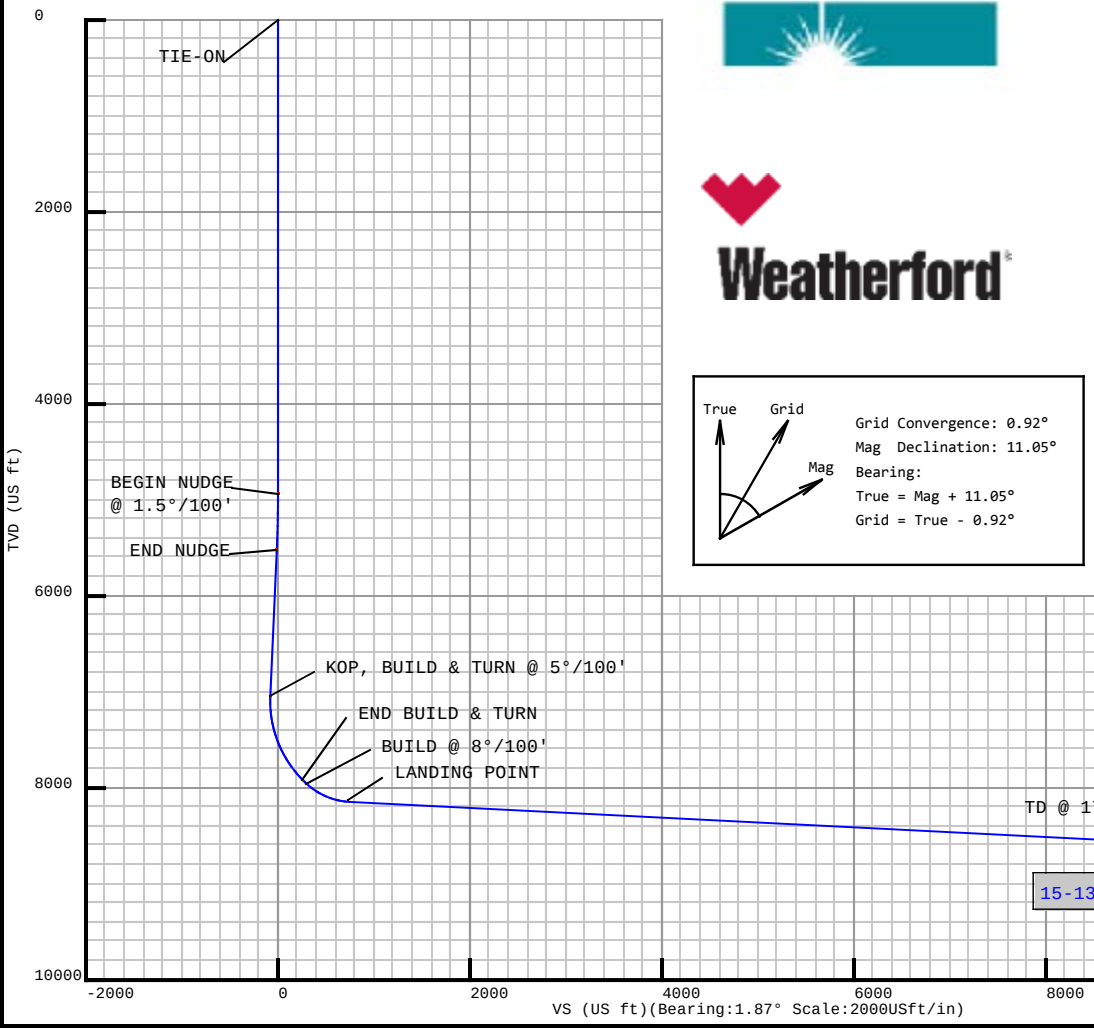
MD (USft)	Inc (°)	Az (°)	TVD (USft)	+N/-S (USft)	+E/-W (USft)	VSec (USft)	DLS (DLSU)	Toolface (°)	Build (DLSU)	Turn (DLSU)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00
4940.00	0.00	0.00	4940.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00
5540.00	9.00	108.08	5537.54	-14.59	44.71	-13.13	1.50	108.1	1.50	0.00
7069.18	9.00	108.08	7047.89	-88.83	272.11	-79.91	0.00	0.0	0.00	0.00
8047.68	45.53	359.88	7928.00	257.88	348.86	269.13	5.00	244.1	3.73	-11.06
8097.68	48.03	359.88	7962.23	294.31	348.78	305.54	5.00	0.0	5.00	0.00
8586.18	87.11	359.88	8145.03	737.15	347.85	748.11	8.00	0.0	8.00	0.00
17856.81	87.11	359.89	8612.00	9996.00	330.23	10001.45	0.00	76.0	0.00	0.00
17991.81	87.11	359.89	8618.80	10130.83	329.98	10136.20	0.00	0.0	0.00	0.00

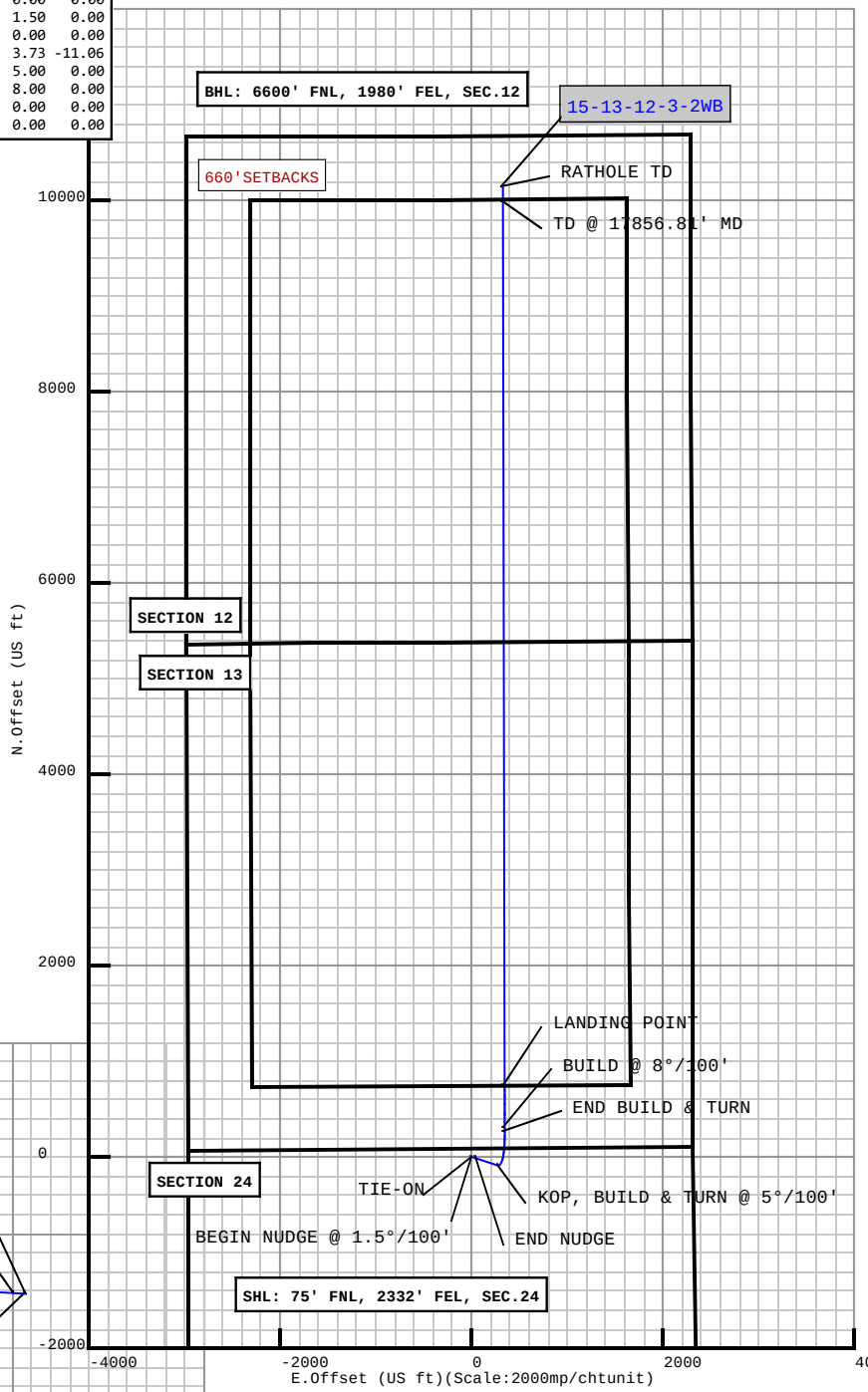
Target Set Information:
Name: 15-13-12-3-2WB PBHL

Name	TVD (USft)	Lat (°)	Long (°)
PBHL 1	8612.00	40.242269	-110.055542

NEWFIELD

Weatherford





5D Plan Report

15-13-12-3-2WB

Field Name UTAH_ CENTRAL ZONE_NAD83	**Map Units :** US ft		**Company Name :** NEWFIELD
	Vertical Reference Datum (VRD) :		
	Projected Coordinate System : NAD83 / Utah Central (ftUS)		
	Comment :		

Site Name 15-13-12-3-2WB	**Units :** US ft	**North Reference** : True	**Convergence Angle :** 0.92
	Position	**Northing :** 7250228.76 US ft	**Latitude :** 40° 12' 53.38"
		Easting : 2043449.51 US ft	**Longitude :** -110° 3' 24.21"
	Elevation above VRD:5107.00 US ft		
	Comment :		

Slot Name 15-13-12-3-2WB		**Position (Offsets relative to Site Centre)**	
	+N / -S : 0.00 US ft	**Northing :**7250228.76 US ft	**Latitude :** 40°12'53.38"
	+E / -W : 0.00 US ft	**Easting :**2043449.51 US ft	**Longitude :** -110°3'24.21"
	Elevation above VRD : 5107.00 US ft		
	Comment :		

Well Name 15-13-12-3-2WB	**Type :** Main well		**UWI :**	**Plan :** PLAN 4
	Rig Height *Well TVD Reference* : 26.00 US ft **Relative to VRD:** 5133.00 US ft		**Comment :**	
	Closure Distance : 10136.2 US ft		**Closure Azimuth :** 1.86555°	
	Vertical Section (Position of Origin Relative to Slot)			
		+N / -S : 0.00 US ft	**+E / -W :** 0.00 US ft	**Az :**1.87°
	Magnetic Parameters			
	Model : BGGM	**Field Strength :** 51971.4nT	**Dec :** 11.05°	**Dip :** 65.85° **Date :** 10/Sep/2014

Plan Archive

Plan Folder	Date	Comment	Plans		
			Plan	**Date**	**Comment**
P1	31/Jul/2014		PLAN 1	31/Jul/2014	

RECEIVED: Sep. 11, 2014

5D Plan Report

Plan Archive

Plan Folder	Date	Comment	Plans		
			Plan	**Date**	**Comment**
			PLAN 2	28/Aug/2014	
			PLAN 3-A	08/Sep/2014	
			PLAN 3	08/Sep/2014	
			PLAN 3-B	10/Sep/2014	
			PLAN 4	10/Sep/2014	

Target Set

Name : 15-13-12-3-2WB PBHL **Number of Targets :** 1

Comment :

TargetName:

PBHL 1

Shape:

Cuboid

Position (Relative to Slot centre)

+N / -S : 9996.00US ft **Northing :** 7260228.79 US ft **Latitude :** 40°14'32.17"

+E / -W : 330.23 US ft **Easting :** 2043618.41US ft **Longitude :** -110°3'19.95"

TVD (Well TVD Reference) : 8612.00 US ft

Orientation **Azimuth :** 0.00° **Inclination :** 0.00°

Dimensions **Length :** 1.00 US ft **Breadth :** 1.00 US ft **Height :** 1.00 US ft

Well path created using minimum curvature

Interpolated Points (Relative to Slot centre, TVD relative to Well TVD Reference)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' '')	Longitude (° ' '')	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Clos.Az (°)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	TIE-ON
100.00	0.00	0.00	100.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
1200.00	0.00	0.00	1200.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	

Interpolated Points (Relative to Slot centre, TVD relative to Well TVD Reference)												
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Clos.Az (°)	Comment
1300.00	0.00	0.00	1300.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
1400.00	0.00	0.00	1400.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
1600.00	0.00	0.00	1600.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
1700.00	0.00	0.00	1700.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
2200.00	0.00	0.00	2200.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
2600.00	0.00	0.00	2600.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
2800.00	0.00	0.00	2800.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
2900.00	0.00	0.00	2900.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
3300.00	0.00	0.00	3300.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
3400.00	0.00	0.00	3400.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
3500.00	0.00	0.00	3500.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
3600.00	0.00	0.00	3600.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
3700.00	0.00	0.00	3700.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
3800.00	0.00	0.00	3800.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
3900.00	0.00	0.00	3900.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
4100.00	0.00	0.00	4100.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
4200.00	0.00	0.00	4200.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
4300.00	0.00	0.00	4300.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
4400.00	0.00	0.00	4400.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
4500.00	0.00	0.00	4500.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
4600.00	0.00	0.00	4600.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
4700.00	0.00	0.00	4700.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
4800.00	0.00	0.00	4800.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
4900.00	0.00	0.00	4900.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	
4940.00	0.00	0.00	4940.00	0.00	0.00	40°12'53.38"	-110°3'24.21"	0.00	0.00	0.00	0.00	BEGIN NUDGE @ 1.5°/100'
5000.00	0.90	108.08	5000.00	-0.15	0.45	40°12'53.38"	-110°3'24.20"	1.50	108.08	-0.13	108.08	
5100.00	2.40	108.08	5099.95	-1.04	3.19	40°12'53.37"	-110°3'24.17"	1.50	0.00	-0.94	108.08	

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5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Well TVD Reference)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Clos.Az (°)	Comment
5199.20	3.89	108.08	5199.00	-2.73	8.36	40°12'53.35"	-110°3'24.10"	1.50	0.00	-2.45	108.08	Trona :
5200.00	3.90	108.08	5199.80	-2.75	8.41	40°12'53.35"	-110°3'24.10"	1.50	0.00	-2.47	108.08	
5241.31	4.52	108.08	5241.00	-3.69	11.29	40°12'53.34"	-110°3'24.06"	1.50	0.00	-3.32	108.08	Mahogany Bench :
5300.00	5.40	108.08	5299.47	-5.26	16.12	40°12'53.33"	-110°3'24.00"	1.50	0.00	-4.73	108.08	
5400.00	6.90	108.08	5398.89	-8.59	26.30	40°12'53.30"	-110°3'23.87"	1.50	0.00	-7.72	108.08	
5500.00	8.40	108.08	5498.00	-12.72	38.95	40°12'53.26"	-110°3'23.71"	1.50	0.00	-11.44	108.08	
5540.00	9.00	108.08	5537.54	-14.59	44.71	40°12'53.24"	-110°3'23.63"	1.50	0.00	-13.13	108.08	END NUDGE
5600.00	9.00	108.08	5596.80	-17.51	53.63	40°12'53.21"	-110°3'23.52"	0.00	0.00	-15.75	108.08	
5700.00	9.00	108.08	5695.57	-22.36	68.50	40°12'53.16"	-110°3'23.33"	0.00	0.00	-20.12	108.08	
5800.00	9.00	108.08	5794.33	-27.22	83.37	40°12'53.11"	-110°3'23.14"	0.00	0.00	-24.48	108.08	
5900.00	9.00	108.08	5893.10	-32.07	98.24	40°12'53.06"	-110°3'22.94"	0.00	0.00	-28.85	108.08	
6000.00	9.00	108.08	5991.87	-36.93	113.11	40°12'53.02"	-110°3'22.75"	0.00	0.00	-33.22	108.08	
6079.10	9.00	108.08	6070.00	-40.77	124.88	40°12'52.98"	-110°3'22.60"	0.00	0.00	-36.67	108.08	Garden Gulch Member :
6100.00	9.00	108.08	6090.64	-41.78	127.98	40°12'52.97"	-110°3'22.56"	0.00	0.00	-37.58	108.08	
6200.00	9.00	108.08	6189.41	-46.64	142.85	40°12'52.92"	-110°3'22.37"	0.00	0.00	-41.95	108.08	
6300.00	9.00	108.08	6288.18	-51.49	157.72	40°12'52.87"	-110°3'22.18"	0.00	0.00	-46.32	108.08	
6325.13	9.00	108.08	6313.00	-52.71	161.46	40°12'52.86"	-110°3'22.13"	0.00	0.00	-47.41	108.08	Garden Gulch Member-1 :
6400.00	9.00	108.08	6386.95	-56.35	172.60	40°12'52.82"	-110°3'21.99"	0.00	0.00	-50.68	108.08	
6481.05	9.00	108.08	6467.00	-60.28	184.65	40°12'52.79"	-110°3'21.83"	0.00	0.00	-54.22	108.08	Garden Gulch Member-2 :
6500.00	9.00	108.08	6485.72	-61.20	187.47	40°12'52.78"	-110°3'21.79"	0.00	0.00	-55.05	108.08	
6600.00	9.00	108.08	6584.49	-66.06	202.34	40°12'52.73"	-110°3'21.60"	0.00	0.00	-59.42	108.08	
6700.00	9.00	108.08	6683.25	-70.91	217.21	40°12'52.68"	-110°3'21.41"	0.00	0.00	-63.79	108.08	
6800.00	9.00	108.08	6782.02	-75.77	232.08	40°12'52.63"	-110°3'21.22"	0.00	0.00	-68.15	108.08	
6900.00	9.00	108.08	6880.79	-80.62	246.95	40°12'52.58"	-110°3'21.03"	0.00	0.00	-72.52	108.08	
7000.00	9.00	108.08	6979.56	-85.48	261.82	40°12'52.54"	-110°3'20.83"	0.00	0.00	-76.89	108.08	
7069.18	9.00	108.08	7047.89	-88.83	272.11	40°12'52.50"	-110°3'20.70"	0.00	0.00	-79.91	108.08	KOP, BUILD & TURN @ 5°/100'
7100.00	8.44	98.60	7078.35	-89.92	276.64	40°12'52.49"	-110°3'20.64"	5.00	244.06	-80.85	108.01	
7191.58	8.37	66.87	7169.00	-88.31	289.42	40°12'52.51"	-110°3'20.48"	5.00	253.44	-78.82	106.97	Douglas Creek Member :
7200.00	8.49	64.11	7177.33	-87.79	290.54	40°12'52.51"	-110°3'20.46"	5.00	284.84	-78.27	106.81	
7300.00	11.07	38.46	7275.91	-77.05	303.15	40°12'52.62"	-110°3'20.30"	5.00	287.57	-67.12	104.26	
7400.00	14.92	24.09	7373.36	-57.78	314.39	40°12'52.81"	-110°3'20.16"	5.00	312.87	-47.49	100.41	
7500.00	19.30	15.81	7468.93	-30.11	324.15	40°12'53.08"	-110°3'20.03"	5.00	326.88	-19.52	95.31	
7600.00	23.91	10.55	7561.89	5.73	332.36	40°12'53.44"	-110°3'19.93"	5.00	334.80	16.58	89.01	
7700.00	28.65	6.94	7651.53	49.48	338.97	40°12'53.87"	-110°3'19.84"	5.00	339.69	60.52	81.69	
7800.00	33.46	4.28	7737.18	100.80	343.93	40°12'54.38"	-110°3'19.78"	5.00	342.94	111.97	73.66	
7862.02	36.47	2.95	7788.00	136.27	346.15	40°12'54.73"	-110°3'19.75"	5.00	345.22	147.49	68.51	B Limestone :
7900.00	38.31	2.22	7818.17	159.30	347.19	40°12'54.96"	-110°3'19.73"	5.00	346.31	170.55	65.35	

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Interpolated Points (Relative to Slot centre, TVD relative to Well TVD Reference)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Clos.Az (°)	Comment
8000.00	43.19	0.57	7893.91	224.54	348.73	40°12'55.60"	-110°3'19.71"	5.00	346.88	235.80	57.22	
8047.68	45.53	359.88	7928.00	257.88	348.86	40°12'55.93"	-110°3'19.71"	5.00	348.14	269.13	53.53	END BUILD & TURN
8097.68	48.03	359.88	7962.23	294.31	348.78	40°12'56.29"	-110°3'19.71"	5.00	0.00	305.54	49.84	BUILD @ 8°/100'
8100.00	48.22	359.88	7963.78	296.04	348.78	40°12'56.31"	-110°3'19.71"	8.00	0.00	307.26	49.68	
8121.71	49.95	359.88	7978.00	312.45	348.74	40°12'56.47"	-110°3'19.71"	8.00	0.00	323.66	48.14	Lower Black Shale :
8200.00	56.22	359.88	8025.00	375.00	348.61	40°12'57.09"	-110°3'19.72"	8.00	0.00	386.18	42.91	
8291.75	63.56	359.88	8071.00	454.31	348.45	40°12'57.87"	-110°3'19.72"	8.00	0.00	465.44	37.49	Castle Peak Limestone :
8300.00	64.22	359.88	8074.63	461.72	348.43	40°12'57.94"	-110°3'19.72"	8.00	0.00	472.85	37.04	
8370.13	69.83	359.88	8102.00	526.26	348.29	40°12'58.58"	-110°3'19.72"	8.00	0.00	537.35	33.50	CP1 :
8400.00	72.22	359.88	8111.71	554.51	348.24	40°12'58.86"	-110°3'19.72"	8.00	0.00	565.57	32.13	
8500.00	80.22	359.88	8135.52	651.55	348.03	40°12'59.82"	-110°3'19.72"	8.00	0.00	662.56	28.11	
8585.60	87.06	359.88	8145.00	736.57	347.85	40°13'0.66"	-110°3'19.73"	8.00	0.00	747.52	25.28	CP2 (Hz Target) :
8586.18	87.11	359.88	8145.03	737.15	347.85	40°13'0.67"	-110°3'19.73"	8.00	0.00	748.11	25.26	LANDING POINT
8600.00	87.11	359.88	8145.73	750.95	347.82	40°13'0.80"	-110°3'19.73"	0.00	0.00	761.90	24.85	
8700.00	87.11	359.88	8150.77	850.82	347.61	40°13'1.79"	-110°3'19.73"	0.00	0.00	861.71	22.22	
8800.00	87.11	359.88	8155.81	950.70	347.41	40°13'2.78"	-110°3'19.73"	0.00	0.00	961.53	20.07	
8900.00	87.11	359.88	8160.85	1050.57	347.20	40°13'3.76"	-110°3'19.73"	0.00	0.00	1061.34	18.29	
9000.00	87.11	359.88	8165.89	1150.44	346.99	40°13'4.75"	-110°3'19.74"	0.00	0.00	1161.15	16.78	
9100.00	87.11	359.88	8170.94	1250.31	346.78	40°13'5.74"	-110°3'19.74"	0.00	0.00	1260.96	15.50	
9200.00	87.11	359.88	8175.98	1350.19	346.57	40°13'6.72"	-110°3'19.74"	0.00	0.00	1360.78	14.40	
9300.00	87.11	359.88	8181.02	1450.06	346.36	40°13'7.71"	-110°3'19.74"	0.00	0.00	1460.59	13.43	
9400.00	87.11	359.88	8186.06	1549.93	346.16	40°13'8.70"	-110°3'19.75"	0.00	0.00	1560.40	12.59	
9500.00	87.11	359.88	8191.10	1649.80	345.95	40°13'9.69"	-110°3'19.75"	0.00	0.00	1660.21	11.84	
9600.00	87.11	359.88	8196.14	1749.68	345.74	40°13'10.67"	-110°3'19.75"	0.00	0.00	1760.03	11.18	
9700.00	87.11	359.88	8201.18	1849.55	345.54	40°13'11.66"	-110°3'19.76"	0.00	0.00	1859.84	10.58	
9800.00	87.11	359.88	8206.23	1949.42	345.33	40°13'12.65"	-110°3'19.76"	0.00	0.00	1959.65	10.05	
9900.00	87.11	359.88	8211.27	2049.30	345.12	40°13'13.63"	-110°3'19.76"	0.00	0.00	2059.47	9.56	
10000.00	87.11	359.88	8216.31	2149.17	344.92	40°13'14.62"	-110°3'19.76"	0.00	0.00	2159.28	9.12	
10100.00	87.11	359.88	8221.35	2249.04	344.71	40°13'15.61"	-110°3'19.77"	0.00	0.00	2259.09	8.71	
10200.00	87.11	359.88	8226.39	2348.91	344.50	40°13'16.59"	-110°3'19.77"	0.00	0.00	2358.90	8.34	
10300.00	87.11	359.88	8231.43	2448.79	344.30	40°13'17.58"	-110°3'19.77"	0.00	0.00	2458.72	8.00	
10400.00	87.11	359.88	8236.47	2548.66	344.09	40°13'18.57"	-110°3'19.77"	0.00	0.00	2558.53	7.69	
10500.00	87.11	359.88	8241.51	2648.53	343.89	40°13'19.56"	-110°3'19.78"	0.00	0.00	2658.34	7.40	
10600.00	87.11	359.88	8246.55	2748.40	343.68	40°13'20.54"	-110°3'19.78"	0.00	0.00	2758.15	7.13	
10700.00	87.11	359.88	8251.59	2848.28	343.48	40°13'21.53"	-110°3'19.78"	0.00	0.00	2857.97	6.88	
10800.00	87.11	359.88	8256.63	2948.15	343.27	40°13'22.52"	-110°3'19.78"	0.00	0.00	2957.78	6.64	
10900.00	87.11	359.88	8261.68	3048.02	343.07	40°13'23.50"	-110°3'19.79"	0.00	0.00	3057.59	6.42	
11000.00	87.11	359.88	8266.72	3147.89	342.86	40°13'24.49"	-110°3'19.79"	0.00	0.00	3157.41	6.22	

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Interpolated Points (Relative to Slot centre, TVD relative to Well TVD Reference)												
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Clos.Az (°)	Comment
11100.00	87.11	359.88	8271.76	3247.77	342.66	40°13'25.48"	-110°3'19.79"	0.00	0.00	3257.22	6.02	
11200.00	87.11	359.88	8276.80	3347.64	342.46	40°13'26.46"	-110°3'19.79"	0.00	0.00	3357.03	5.84	
11300.00	87.11	359.88	8281.84	3447.51	342.25	40°13'27.45"	-110°3'19.80"	0.00	0.00	3456.84	5.67	
11400.00	87.11	359.88	8286.88	3547.39	342.05	40°13'28.44"	-110°3'19.80"	0.00	0.00	3556.66	5.51	
11500.00	87.11	359.88	8291.92	3647.26	341.85	40°13'29.43"	-110°3'19.80"	0.00	0.00	3656.47	5.35	
11600.00	87.11	359.88	8296.96	3747.13	341.64	40°13'30.41"	-110°3'19.81"	0.00	0.00	3756.28	5.21	
11700.00	87.11	359.88	8302.00	3847.00	341.44	40°13'31.40"	-110°3'19.81"	0.00	0.00	3856.10	5.07	
11800.00	87.11	359.88	8307.04	3946.88	341.24	40°13'32.39"	-110°3'19.81"	0.00	0.00	3955.91	4.94	
11900.00	87.11	359.88	8312.08	4046.75	341.03	40°13'33.37"	-110°3'19.81"	0.00	0.00	4055.72	4.82	
12000.00	87.11	359.88	8317.12	4146.62	340.83	40°13'34.36"	-110°3'19.82"	0.00	0.00	4155.53	4.70	
12100.00	87.11	359.88	8322.16	4246.49	340.63	40°13'35.35"	-110°3'19.82"	0.00	0.00	4255.35	4.59	
12200.00	87.11	359.88	8327.20	4346.37	340.43	40°13'36.33"	-110°3'19.82"	0.00	0.00	4355.16	4.48	
12300.00	87.11	359.88	8332.24	4446.24	340.23	40°13'37.32"	-110°3'19.82"	0.00	0.00	4454.97	4.38	
12400.00	87.11	359.88	8337.28	4546.11	340.03	40°13'38.31"	-110°3'19.83"	0.00	0.00	4554.79	4.28	
12500.00	87.11	359.88	8342.32	4645.98	339.82	40°13'39.30"	-110°3'19.83"	0.00	0.00	4654.60	4.18	
12600.00	87.11	359.88	8347.36	4745.86	339.62	40°13'40.28"	-110°3'19.83"	0.00	0.00	4754.41	4.09	
12700.00	87.11	359.88	8352.40	4845.73	339.42	40°13'41.27"	-110°3'19.83"	0.00	0.00	4854.23	4.01	
12800.00	87.11	359.88	8357.44	4945.60	339.22	40°13'42.26"	-110°3'19.84"	0.00	0.00	4954.04	3.92	
12900.00	87.11	359.88	8362.48	5045.48	339.02	40°13'43.24"	-110°3'19.84"	0.00	0.00	5053.85	3.84	
13000.00	87.11	359.89	8367.52	5145.35	338.82	40°13'44.23"	-110°3'19.84"	0.00	0.00	5153.66	3.77	
13100.00	87.11	359.89	8372.56	5245.22	338.62	40°13'45.22"	-110°3'19.84"	0.00	0.00	5253.48	3.69	
13200.00	87.11	359.89	8377.60	5345.09	338.42	40°13'46.20"	-110°3'19.85"	0.00	0.00	5353.29	3.62	
13300.00	87.11	359.89	8382.64	5444.97	338.22	40°13'47.19"	-110°3'19.85"	0.00	0.00	5453.10	3.55	
13400.00	87.11	359.89	8387.68	5544.84	338.02	40°13'48.18"	-110°3'19.85"	0.00	0.00	5552.92	3.49	
13500.00	87.11	359.89	8392.72	5644.71	337.82	40°13'49.17"	-110°3'19.85"	0.00	0.00	5652.73	3.42	
13600.00	87.11	359.89	8397.75	5744.58	337.62	40°13'50.15"	-110°3'19.86"	0.00	0.00	5752.54	3.36	
13700.00	87.11	359.89	8402.79	5844.46	337.43	40°13'51.14"	-110°3'19.86"	0.00	0.00	5852.36	3.30	
13800.00	87.11	359.89	8407.83	5944.33	337.23	40°13'52.13"	-110°3'19.86"	0.00	0.00	5952.17	3.25	
13900.00	87.11	359.89	8412.87	6044.20	337.03	40°13'53.11"	-110°3'19.86"	0.00	0.00	6051.98	3.19	
14000.00	87.11	359.89	8417.91	6144.08	336.83	40°13'54.10"	-110°3'19.87"	0.00	0.00	6151.80	3.14	
14100.00	87.11	359.89	8422.95	6243.95	336.63	40°13'55.09"	-110°3'19.87"	0.00	0.00	6251.61	3.09	
14200.00	87.11	359.89	8427.99	6343.82	336.44	40°13'56.08"	-110°3'19.87"	0.00	0.00	6351.42	3.04	
14300.00	87.11	359.89	8433.03	6443.69	336.24	40°13'57.06"	-110°3'19.87"	0.00	0.00	6451.23	2.99	
14400.00	87.11	359.89	8438.07	6543.57	336.04	40°13'58.05"	-110°3'19.88"	0.00	0.00	6551.05	2.94	
14500.00	87.11	359.89	8443.11	6643.44	335.84	40°13'59.04"	-110°3'19.88"	0.00	0.00	6650.86	2.89	
14600.00	87.11	359.89	8448.15	6743.31	335.65	40°14'0.02"	-110°3'19.88"	0.00	0.00	6750.67	2.85	
14700.00	87.11	359.89	8453.18	6843.19	335.45	40°14'1.01"	-110°3'19.88"	0.00	0.00	6850.49	2.81	
14800.00	87.11	359.89	8458.22	6943.06	335.25	40°14'2.00"	-110°3'19.89"	0.00	0.00	6950.30	2.76	
14900.00	87.11	359.89	8463.26	7042.93	335.06	40°14'2.98"	-110°3'19.89"	0.00	0.00	7050.11	2.72	
15000.00	87.11	359.89	8468.30	7142.80	334.86	40°14'3.97"	-110°3'19.89"	0.00	0.00	7149.93	2.68	
15100.00	87.11	359.89	8473.34	7242.68	334.67	40°14'4.96"	-110°3'19.89"	0.00	0.00	7249.74	2.65	

Interpolated Points (Relative to Slot centre, TVD relative to Well TVD Reference)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Clos.Az (°)	Comment
15200.00	87.11	359.89	8478.38	7342.55	334.47	40°14'5.95"	-110°3'19.90"	0.00	0.00	7349.55	2.61	
15300.00	87.11	359.89	8483.42	7442.42	334.27	40°14'6.93"	-110°3'19.90"	0.00	0.00	7449.37	2.57	
15400.00	87.11	359.89	8488.45	7542.29	334.08	40°14'7.92"	-110°3'19.90"	0.00	0.00	7549.18	2.54	
15500.00	87.11	359.89	8493.49	7642.17	333.88	40°14'8.91"	-110°3'19.90"	0.00	0.00	7648.99	2.50	
15600.00	87.11	359.89	8498.53	7742.04	333.69	40°14'9.89"	-110°3'19.91"	0.00	0.00	7748.81	2.47	
15700.00	87.11	359.89	8503.57	7841.91	333.49	40°14'10.88"	-110°3'19.91"	0.00	0.00	7848.62	2.44	
15800.00	87.11	359.89	8508.61	7941.79	333.30	40°14'11.87"	-110°3'19.91"	0.00	0.00	7948.43	2.40	
15900.00	87.11	359.89	8513.64	8041.66	333.11	40°14'12.85"	-110°3'19.91"	0.00	0.00	8048.25	2.37	
16000.00	87.11	359.89	8518.68	8141.53	332.91	40°14'13.84"	-110°3'19.92"	0.00	0.00	8148.06	2.34	
16100.00	87.11	359.89	8523.72	8241.40	332.72	40°14'14.83"	-110°3'19.92"	0.00	0.00	8247.87	2.31	
16200.00	87.11	359.89	8528.76	8341.28	332.52	40°14'15.82"	-110°3'19.92"	0.00	0.00	8347.69	2.28	
16300.00	87.11	359.89	8533.80	8441.15	332.33	40°14'16.80"	-110°3'19.92"	0.00	0.00	8447.50	2.25	
16400.00	87.11	359.89	8538.83	8541.02	332.14	40°14'17.79"	-110°3'19.93"	0.00	0.00	8547.31	2.23	
16500.00	87.11	359.89	8543.87	8640.90	331.94	40°14'18.78"	-110°3'19.93"	0.00	0.00	8647.13	2.20	
16600.00	87.11	359.89	8548.91	8740.77	331.75	40°14'19.76"	-110°3'19.93"	0.00	0.00	8746.94	2.17	
16700.00	87.11	359.89	8553.95	8840.64	331.56	40°14'20.75"	-110°3'19.93"	0.00	0.00	8846.75	2.15	
16800.00	87.11	359.89	8558.99	8940.51	331.37	40°14'21.74"	-110°3'19.94"	0.00	0.00	8946.57	2.12	
16900.00	87.11	359.89	8564.02	9040.39	331.18	40°14'22.72"	-110°3'19.94"	0.00	0.00	9046.38	2.10	
17000.00	87.11	359.89	8569.06	9140.26	330.98	40°14'23.71"	-110°3'19.94"	0.00	0.00	9146.19	2.07	
17100.00	87.11	359.89	8574.10	9240.13	330.79	40°14'24.70"	-110°3'19.94"	0.00	0.00	9246.01	2.05	
17200.00	87.11	359.89	8579.14	9340.01	330.60	40°14'25.69"	-110°3'19.95"	0.00	0.00	9345.82	2.03	
17300.00	87.11	359.89	8584.17	9439.88	330.41	40°14'26.67"	-110°3'19.95"	0.00	0.00	9445.63	2.00	
17400.00	87.11	359.89	8589.21	9539.75	330.22	40°14'27.66"	-110°3'19.95"	0.00	0.00	9545.45	1.98	
17500.00	87.11	359.89	8594.25	9639.62	330.03	40°14'28.65"	-110°3'19.95"	0.00	0.00	9645.26	1.96	
17600.00	87.11	359.89	8599.29	9739.50	329.84	40°14'29.63"	-110°3'19.96"	0.00	0.00	9745.07	1.94	
17700.00	87.11	359.89	8604.32	9839.37	329.65	40°14'30.62"	-110°3'19.96"	0.00	0.00	9844.89	1.92	
17800.00	87.11	359.89	8609.36	9939.24	329.46	40°14'31.61"	-110°3'19.96"	0.00	0.00	9944.70	1.90	
17856.82	87.11	359.89	8612.00	9996.00	330.23	40°14'32.17"	-110°3'19.95"	0.00	75.97	10001.45	1.89	TD @ 17856.81' MD
17900.01	87.11	359.89	8614.18	10039.13	330.15	40°14'32.59"	-110°3'19.95"	0.00	0.00	10044.56	1.88	
17991.82	87.11	359.89	8618.80	10130.83	329.98	40°14'33.50"	-110°3'19.95"	0.00	0.00	10136.20	1.87	RATHOLE TD

Formation Points (Relative to Slot centre, TVD relative to Well TVD Reference)

Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	F.Dip (°)	F.Dir (°)
Trona	5199.20	3.89	108.08	5199.00	-2.73	8.36	0	0
Mahogany Bench	5241.31	4.52	108.08	5241.00	-3.69	11.29	0	0
Garden Gulch Member	6079.10	9.00	108.08	6070.00	-40.77	124.88	0	0
Garden Gulch Member-1	6325.13	9.00	108.08	6313.00	-52.71	161.46	0	0
Garden Gulch Member-2	6481.05	9.00	108.08	6467.00	-60.28	184.65	0	0
Douglas Creek Member	7191.58	8.37	66.87	7169.00	-88.31	289.42	0	0

Formation Points (Relative to Slot centre, TVD relative to Well TVD Reference)								
Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	F.Dip (°)	F.Dir (°)
B Limestone	7862.02	36.47	2.95	7788.00	136.27	346.15	0	0
Lower Black Shale	8121.71	49.95	359.88	7978.00	312.45	348.74	0	0
Castle Peak Limestone	8291.75	63.56	359.88	8071.00	454.31	348.45	0	0
CP1	8370.13	69.83	359.88	8102.00	526.26	348.29	0	0
CP2 (Hz Target)	8585.60	87.06	359.88	8145.00	736.57	347.85	0	0
CP 2.5	-1.#J	0.00	0.00	5133.00	-7216313.00	-2160168.90	0	0
Uteland Butte	-1.#J	0.00	0.00	5133.00	-7216313.00	-2160168.90	0	0

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Newfield Production Company
15-13-12-3-2WB
Surface Hole Location: 75' FNL, 2332' FEL, Section 24, T3S, R2W
Bottom Hole Location: 525' FNL, 1980' FEL, Section 12, T3S, R2W
Duchesne County, UT

Drilling Program

1. Formation Tops

Uinta	surface			
Green River	3,289'			
Garden Gulch	6,076'			
Castle Peak Lime	7,781'			
0	0'			
Lateral TD	8,581'	TVD /	17,836'	MD

2. Depth to Oil, Gas, Water, or Minerals

Base of moderately saline	5,133'			(water)
Green River	6,076'	-	0'	(oil)
0	0'	-	8,581'	(oil)

3. Pressure Control

Section	BOP Description
Surface	Diverter
Intermediate	The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system.
Prod/Prod Liner	The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system. A 5M BOP system will consist of 2 ram preventers (double or two singles) and an annular preventer (see attached diagram). A choke manifold rated to at least 5,000 psi will be used.

4. Casing

Description	Interval		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom (TVD/MD)							Burst	Collapse	Tension
Conductor 20	0'	60'	--	--	Weld	--	--	--	-- --	-- --	-- --
Surface 13 3/8	0'	1,500'	54.5	J-55	STC	8.33	8.4	14	2,730 2.89	1,130 2.63	514,000 6.29
Intrm Drilling 9 5/8	0'	8,000' 8,100'	40	N-80	BTC	10	10.5	16	5,750 1.33	3,090 1.41	916,000 2.86
Production 5 1/2	0'	8,581' 17,836'	20	P-110	BTC	14	14.5	17	12,360 2.49	11,080 2.14	641,000 1.80

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Assumptions:

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)
Intermediate casing drilling MASP = 0.5 ppg gas kick with a 70 bbl gain and frac at the shoe with a 1 ppg safety factor
Production casing MASP = (reservoir pressure) - (gas gradient)
Intermediate collapse calculations assume 50% evacuated
Maximum intermediate csg collapse load assumes loss of mud to a fluid level of 4,000'
Intermediate csg run from surface to 8,000' TVD and will not experience full evacuation
Production csg run from surface to TD will isolate intermediate csg from production loads
Production csg withstands burst and collapse loads for anticipated production conditions
Surface & production collapse calcs assume fully evacuated casing w/ a gas gradient
All tension calculations assume air weight of casing
Gas gradient = 0.15 psi/ft

All casing shall be new.
All casing strings shall have a minimum of 1 centralizer on each of the bottom 3 joints.

5. Cement

Job	Hole Size	Fill	Slurry Description	ft^3 / sacks	OH excess	Weight (ppg)	Yield (ft^3/sk)
Conductor	24	60'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	66 / 57	15%	15.8	1.17
Surface Lead	17 1/2	1,000'	Type V Cement + 16% Bentonite + 10 lbs/sk Kol Seal + 3% NaCl	799 / 279	15%	12.0	2.86
Surface Tail	17 1/2	500'	Type V Cement + 16% Bentonite + 10 lbs/sk Kol Seal + 3% NaCl	399 / 285	15%	14.0	1.4
Intermediate Lead	12 1/4	6,076'	HLC Premium - 35% Poz/65% Glass G + 10% bentonite	2189 / 620	15%	12.0	3.53
Intermediate Tail	12 1/4	2,024'	50/50 Poz/Class G + 1% bentonite	729 / 565	15%	14.0	1.29
Production Lead	8 3/4	830'	Elastiseal Unfoamed	231 / 125	10%	14.5	1.84
Production Tail	8 3/4	9,406'	Elastiseal Foamed	2376 / 1291	0%	14.5 - 17.3	1.84

The surface casing will be cemented to surface. In the event that cement does not reach surface during the primary cement job, a remedial job will be performed.

Actual cement volumes for the intermediate casing string will be calculated from an open hole caliper log or gauge hole if logs are not ran, plus 15% excess.

The 5.5" production string will be run from surface to TD and cemented to setback. The cement slurries will be adjusted for hole conditions and blend test results. The lateral will be cemented past the setback.

The wellbore will cross the heal setback @ 8,430' MD
The first perforation will be within 17,701' MD

Per the directional plan, the bore hole will be drilled 135' past the toe setback for the rat hole and shoe track. This well will not be perforated or produced outside the legal setbacks.

6. Type and Characteristics of Proposed Circulating Medium

Interval — **Description**

Surface - 1,500' — An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.

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1,500'	- 8,100'	One of two possible mud systems may be used depending on offset well performance on ongoing wells: A water based mud: Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite. -or- A diesel based OBM system: with an oil to water ratio between 70/30 and 80/20. Emulsifiers and wetting agents will be used to maintain adequate mud properties. A water phase salinity will be maintained in the range of 25% using CaCl (Calcium Chloride). All cuttings will be dried and centrifuged so that they can be easily transferred to a lined cuttings pit with little to no free fluid on them. The cuttings will be mixed with fly ash prior to transportation to a location on Newfield owned surface. Once on Newfield owned surface, the cuttings will be treated with the previously approved FIRMUS process and used as a construction material on future location and/or roads on Newfield owned surface. The cuttings may also be transported to a state approved disposal facility. Anticipated maximum mud weight is 10.5 ppg.
8,100'	- TD	One of two possible mud systems may be used depending on offset well performance on ongoing wells: A water based mud: Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite. -or- A diesel based OBM system: with an oil to water ratio between 70/30 and 80/20. Emulsifiers and wetting agents will be used to maintain adequate mud properties. A water phase salinity will be maintained in the range of 25% using CaCl (Calcium Chloride). All cuttings will be dried and centrifuged so that they can be easily transferred to a lined cuttings pit with little to no free fluid on them. The cuttings will be mixed with fly ash prior to transportation to a location on Newfield owned surface. Once on Newfield owned surface, the cuttings will be treated with the previously approved FIRMUS process and used as a construction material on future location and/or roads on Newfield owned surface. The cuttings may also be transported to a state approved disposal facility. Anticipated maximum mud weight is 14.5 ppg.

7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log may be run from KOP to the base of the surface casing. An azimuthal gamma ray LWD log will be run from the shoe of the intermediate casing to TD. A cement bond log will be run from KOP to the cement top behind the production casing and or intermediate casing.

Cores: As deemed necessary.

DST: There are no DST's planned for this well.

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8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.73 psi/ft gradient.

8,581' x 0.73 psi/ft = 6247 psi

No abnormal temperature is expected. No H_2S is expected.

9. Other Aspects

The lateral of this well will target the Wasatch formation
After setting 9-5/8" casing, an 8-3/4" vertical hole will be drilled to a kick off point of 7,559'
Directional tools will then be used to build to 87.11 degrees inclination.
The lateral will be drilled to the bottomhole location shown on the plat. A 5-1/2" longstring will be run from surface to TD and cemented in place.

Newfield requests the following variances from Onshore Order #2:
- Variance from Onshoer Order #2, III.E.1
  Refer to Newfield Production Company Standard Operating Practices "Ute Tribal Green River Development Program" paragraph 9.0

If oil based mud (OBM) is used and If Newfield owns the surface rights on the same drilling site at a location where construction is desired, the cuttings may be used for construction by a Firmus® process at that location. Otherwise, after the cuttings have been made safe for transport as described in paragraph 6, they will be transported to another location on which Newfield owns surface rights and there mixed, as part of a Firmus® process, with at least one additional chemical that will convert them to a temporarily uncured cementitious mixture that will be placed and shaped into a temporary desired final structure that will spontaneously harden within seven days after placement to form the desired structure. Samples of the temporary desired final structure may be taken for testing as described below (after the samples have hardened), or samples of the starting pretreated cuttings and mud will be taken during the construction and later mixed in a laboratory, molded, and cured to simulate the final structure as well as reasonably possible. Either these laboratory-made simulations of the final structure or samples of the temporary mixture itself after hardening, will be mechanically tested directly to determine their unconfined compressive strength and their hydraulic conductivity. Leachates of the mechanically tested structures themselves or of finer particles made by crushing and size-grading of the mechanically tested structures themselves to a specified particle size range will be analyzed, according to specified methods, for their contents of arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, zinc, benzene, total petroleum hydrocarbons (TPH), and chlorides, and the pH of these leachates will also be measured. The results of all these tests will be reported by Newfield to UDOGM at intervals as requested, along with the latitude and longitude (or other comparable location data) of the site of the useful constructions built.

Water flows in the surface hole are possible. If the water flow is less than 400 bbls/hr, the well will be allowed to flow until the surface casing point is reached and water will be hauled off location. If the water flow is greater than 400 bbls/hr, the water flow will be controlled with kill weight mud which will be maintained until TD. In both situations, the cement density will be adjusted to meet or exceed the mud weight needed to kill the water flow and the well will be shut in once cement is in place. If cement fails to reach the surface or falls back, a top job will be performed to bring cement to surface. Any water flows will be sampled and tested and results will be sent to UDOGM.

A diveter will be used to drill the surface hole interval.

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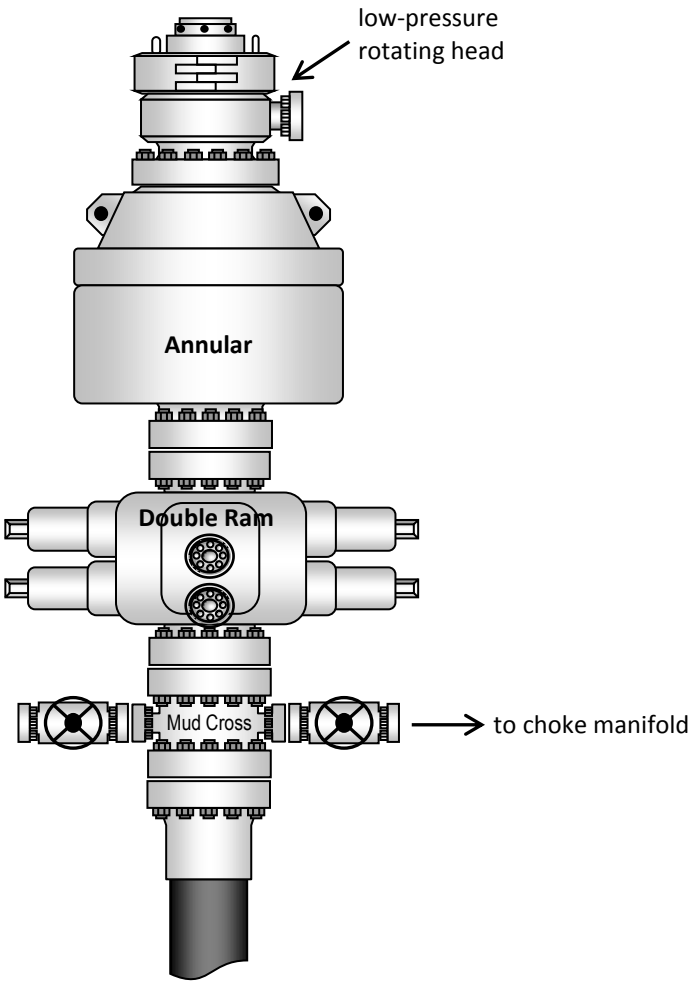
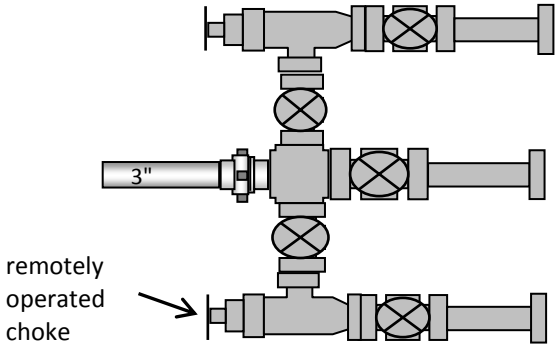
Typical 5M BOP stack configuration



Typical 5M choke manifold configuration



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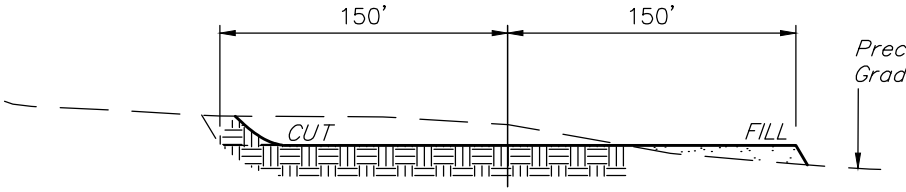
1" = 40'
X-Section Scale
1" = 100'

NEWFIELD EXPLORATION COMPANY

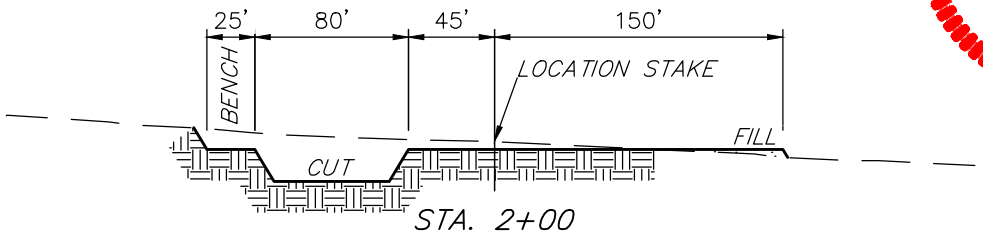
TYPICAL CROSS SECTIONS FOR

#15-13-12-3-2WB
SECTION 24, T3S, R2W, U.S.B.&M.
75' FNL 2332' FEL

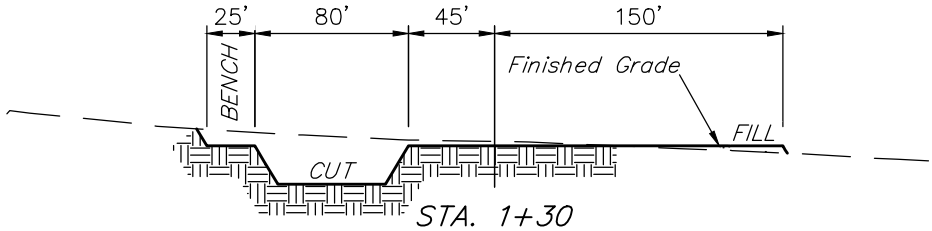
FIGURE #2
SCALE: 1" = 60' DATE: 02-15-12 DRAWN BY: J.J.
REVISED: 04-03-12
REVISED: 07-30-14 C.D.



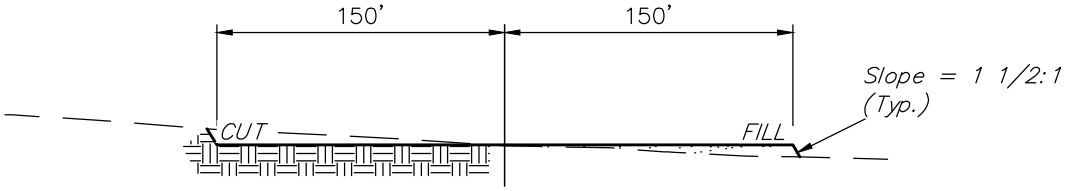
STA. 4+00



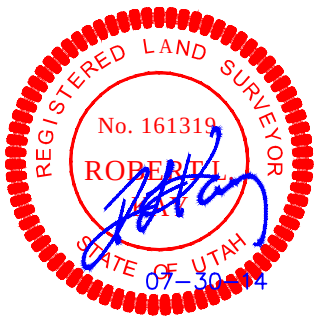
STA. 2+00



STA. 1+30



STA. 0+00



NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 4.591 ACRES
ACCESS ROAD DISTURBANCE = ± 0.701 ACRES
PIPELINE DISTURBANCE = ± 1.195 ACRES
TOTAL = ± 6.487 ACRES

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(12") Topsoil Stripping	=	4,740 Cu. Yds.
Remaining Location	=	5,390 Cu. Yds.
TOTAL CUT	=	10,130 CU.YDS.
FILL	=	4,490 CU.YDS.

EXCESS MATERIAL	=	5,640 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	5,640 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	0 Cu. Yds.

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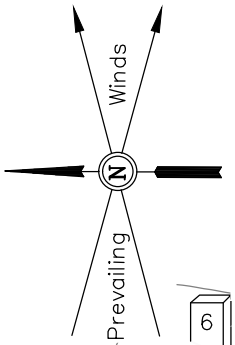
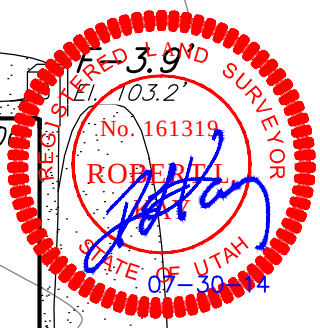
NEWFIELD EXPLORATION COMPANY

LOCATION LAYOUT FOR

#15-13-12-3-2WB
SECTION 24, T3S, R2W, U.S.B.&M.
75' FNL 2332' FEL

FIGURE #1
SCALE: 1" = 60' DATE: 02-15-12 DRAWN BY: J.J.
REVISED: 04-03-12
REVISED: 07-30-14 C.D.





C-6.1'
El. 113.2'
6

C-4.4'
El. 111.5'
7

Pit Topsoil

F-3.9'
El. 103.2'

150'

Sta. 4+00

Round Corners as Needed

5114
5112
5110
5108
5106
5104

200'

Cut/Fill Transition Line

Approx. Top of Cut Slope

Approx. Toe of Fill Slope

Topsoil Stockpile

C-2.4'
El. 109.5'

El. 110.7'
C-11.6'
(Btm. Pit)
C

D

25'
80'
10'
45'

LOC

C-1.7'
El. 108.8'

Sta. 2+00

150'

1
F-1.6'
El. 105.5'

5

C-2.1'
El. 109.2'

RESERVE PIT
(8' Deep)

100'

1 1/2:1 Slope

C-1.0'
El. 108.1'

Sta. 1+30

El. 109.5'
C-10.4'
(Btm. Pit)
B

A

Reserve Pit Backfill & Spoils Stockpile

200'

Total Pit Capacity
W/2' of Freeboard
= 5,930 Bbls.±
Total Pit Volume
= 1,790 Cu. Yds

C-3.2'
El. 110.3'
4

Sta. 0+00

3
F-0.2'
El. 106.9'

2
F-2.4'
El. 104.7'

Existing Drainage

Proposed Access Road

Elev. Ungraded Ground At Loc. Stake = 5108.8'
FINISHED GRADE ELEV. AT LOC. STAKE = 5107.1'

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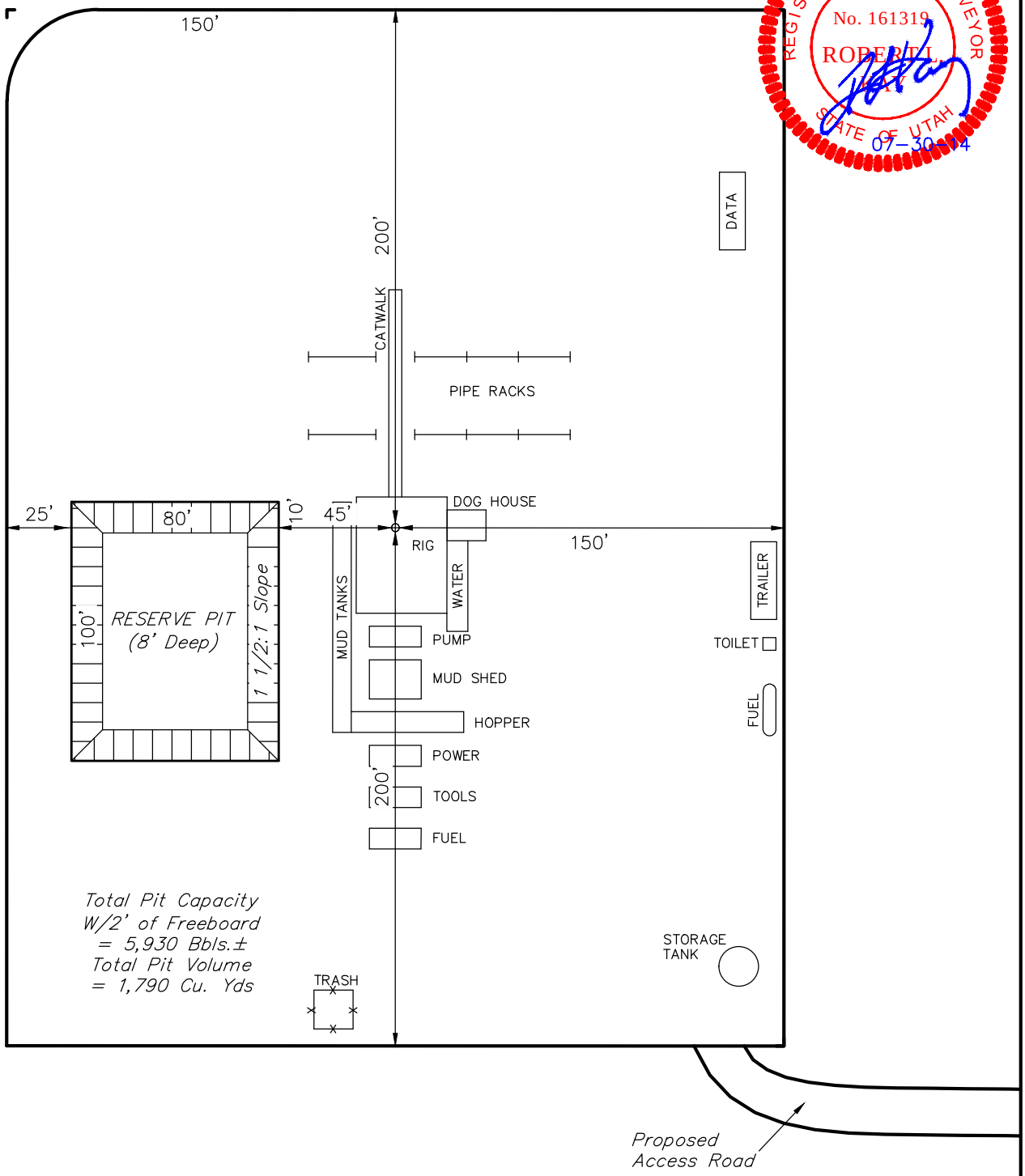
NEWFIELD EXPLORATION COMPANY

TYPICAL RIG LAYOUT FOR

#15-13-12-3-2WB
SECTION 24, T3S, R2W, U.S.B.&M.
75' FNL 2332' FEL

FIGURE #3
SCALE: 1" = 60' DATE: 02-15-12 DRAWN BY: J.J.
REVISED: 04-03-12
REVISED: 07-30-14 C.D.

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L.
STATE OF UTAH
07-30-14



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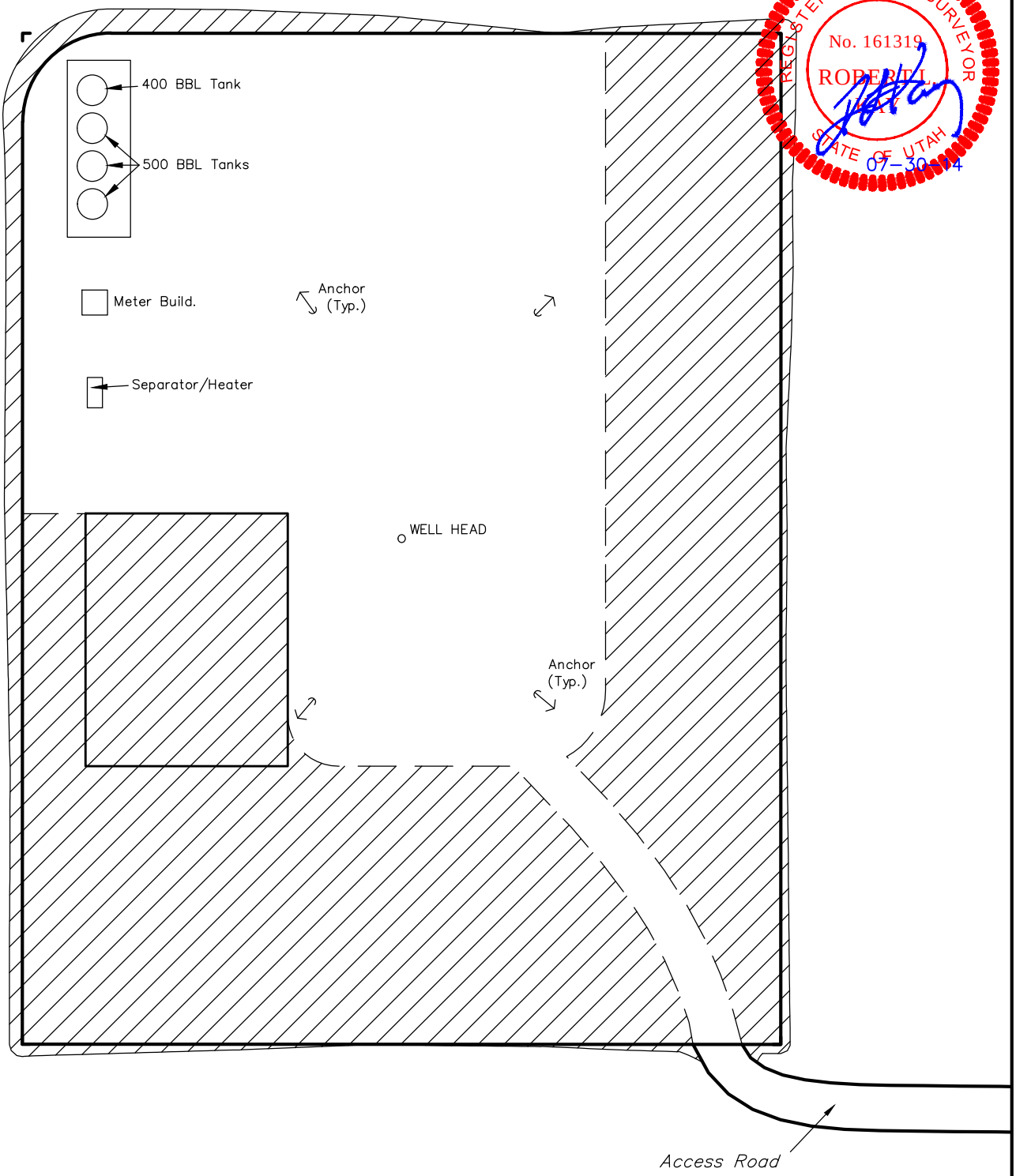
NEWFIELD EXPLORATION COMPANY

PRODUCTION FACILITY LAYOUT FOR

#15-13-12-3-2WB
SECTION 24, T3S, R2W, U.S.B.&M.
75' FNL 2332' FEL

FIGURE #4

SCALE: 1" = 60' DATE: 02-15-12 DRAWN BY: J.J.
REVISED: 04-03-12
REVISED: 04-27-12
REVISED: 07-30-14 C.D.



REGISTERED LAND SURVEYOR
No. 161319
ROBERT L.
STATE OF UTAH
07-30-14

RECLAIMED AREA

APPROXIMATE ACREAGES
UN-RECLAIMED = ± 1.338 ACRES

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NEWFIELD EXPLORATION COMPANY
#15-13-12-3-2WB
SECTION 24, T3S, R2W, U.S.B.&M.

PROCEED IN A NORTHEASTERLY, THEN NORTHERLY DIRECTION FROM MYTON, UTAH ALONG HIGHWAY 40 APPROXIMATELY 1.0 MILES TO THE JUNCTION OF HIGHWAY 40 AND 6250 SOUTH TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE NORTH; FOLLOW ROAD FLAS IN A NORTHERLY DIRECTION APPROXIMATELY 1,110’ TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM MYTON, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 1.7 MILES.

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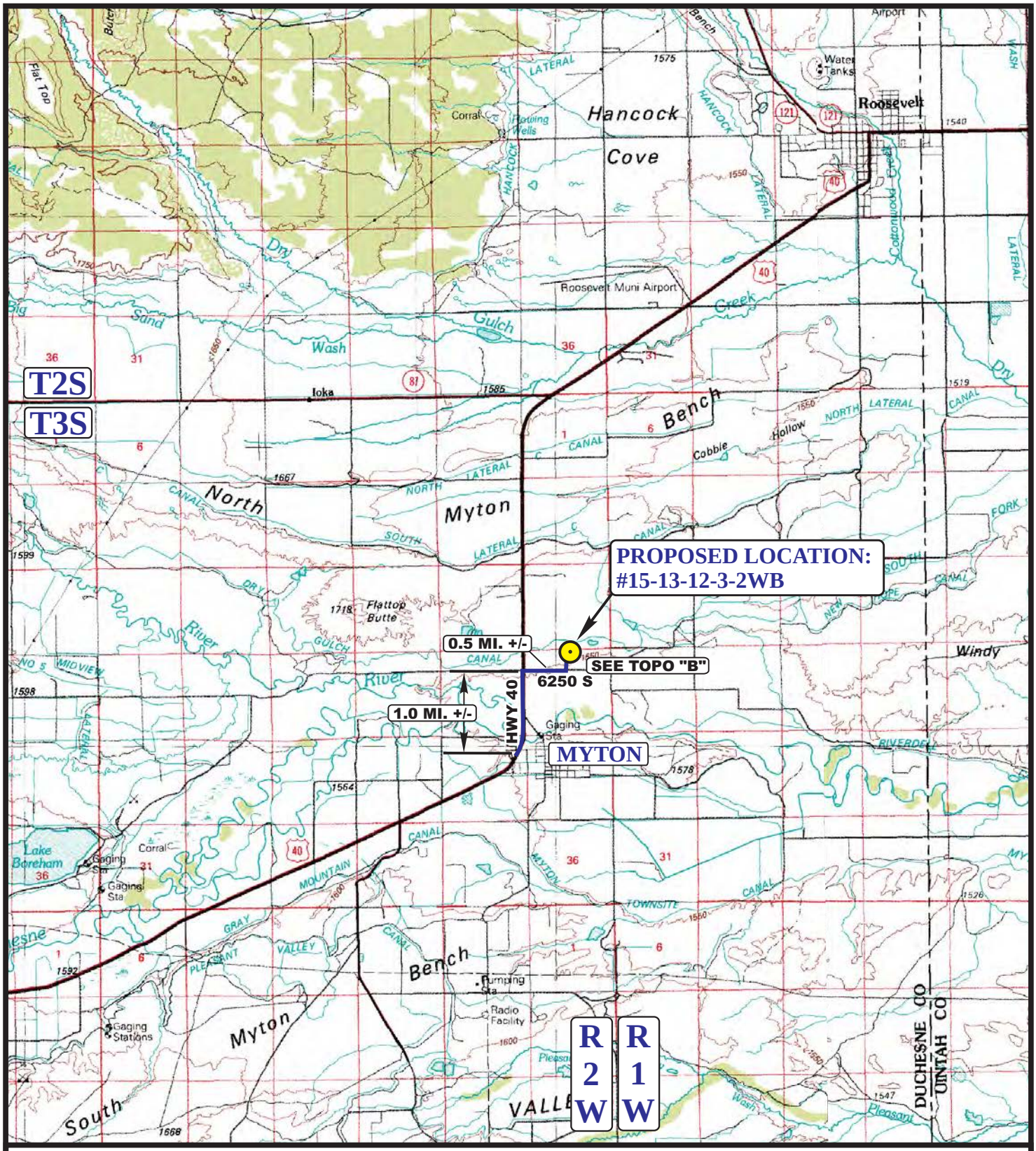


LEGEND:

PROPOSED LOCATION

N

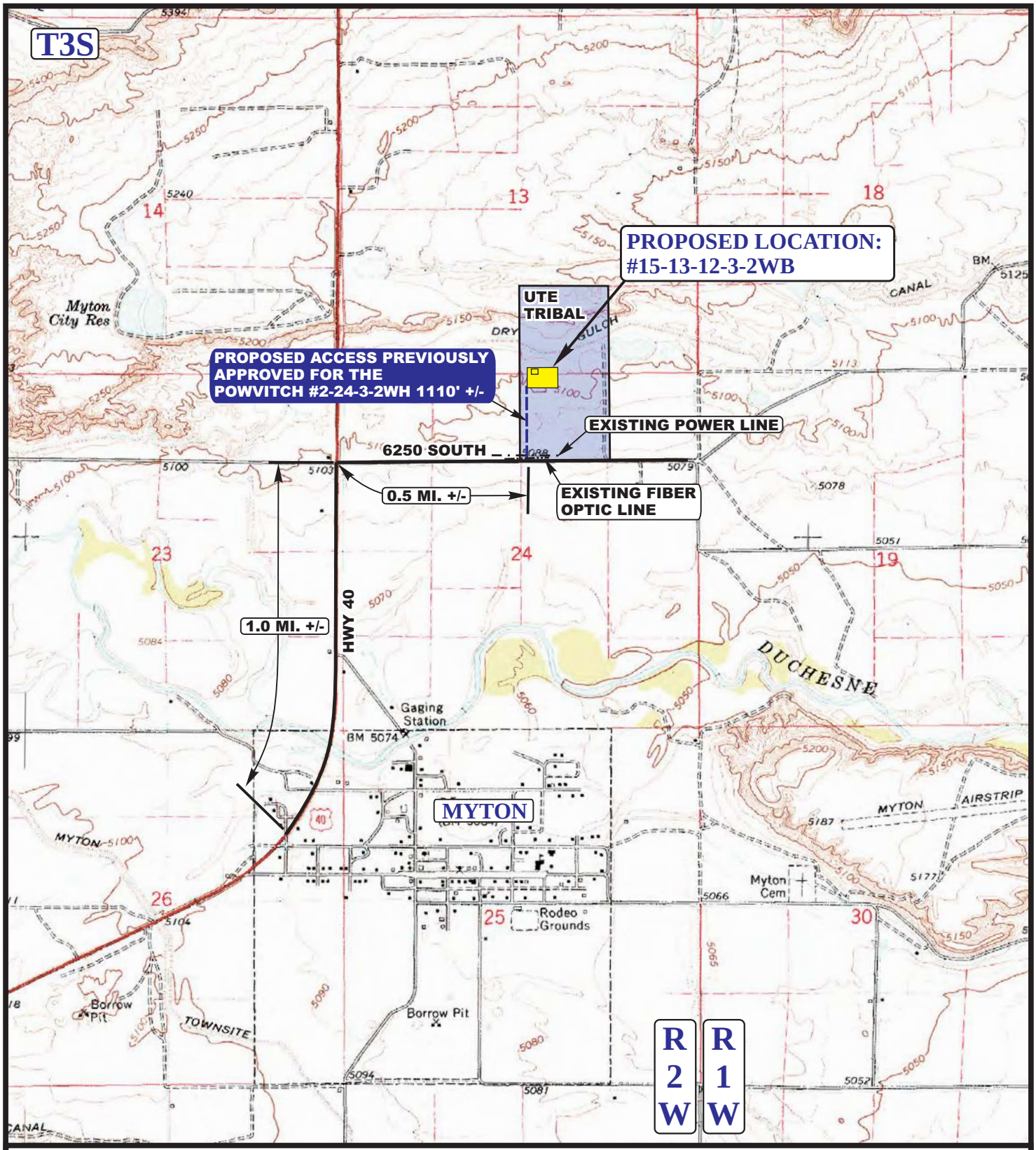
NEWFIELD EXPLORATION COMPANY

#15-13-12-3-2WB
SECTION 24, T3S, R2W, U.S.B.&M.
NW 1/4 NE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

ACCESS ROAD MAP	02 MONTH	14 DAY	12 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: B.D.H.	REV: 07-30-14 L.S.		

Sundry Number: 54774 API Well Number: 43013519420000



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

EXISTING FENCE

EXISTING POWER LINE

EXISTING FIBER OPTIC LINE

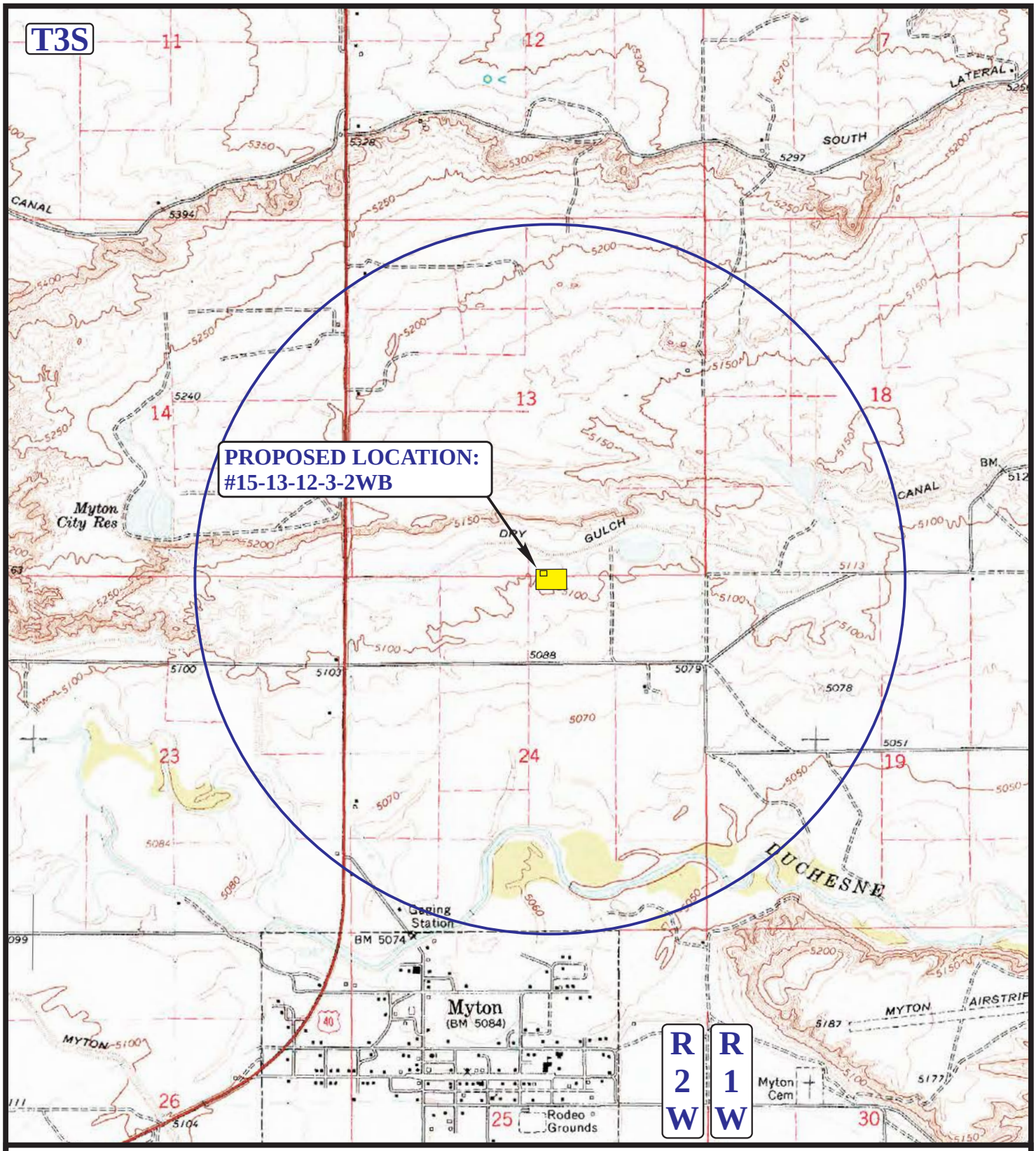
N

NEWFIELD EXPLORATION COMPANY

#15-13-12-3-2WB
SECTION 24, T3S, R2W, U.S.B.&M.
NW 1/4 NE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

ACCESS ROAD MAP	02 MONTH	14 DAY	12 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: B.D.H.	REV: 07-30-14 L.S.		



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

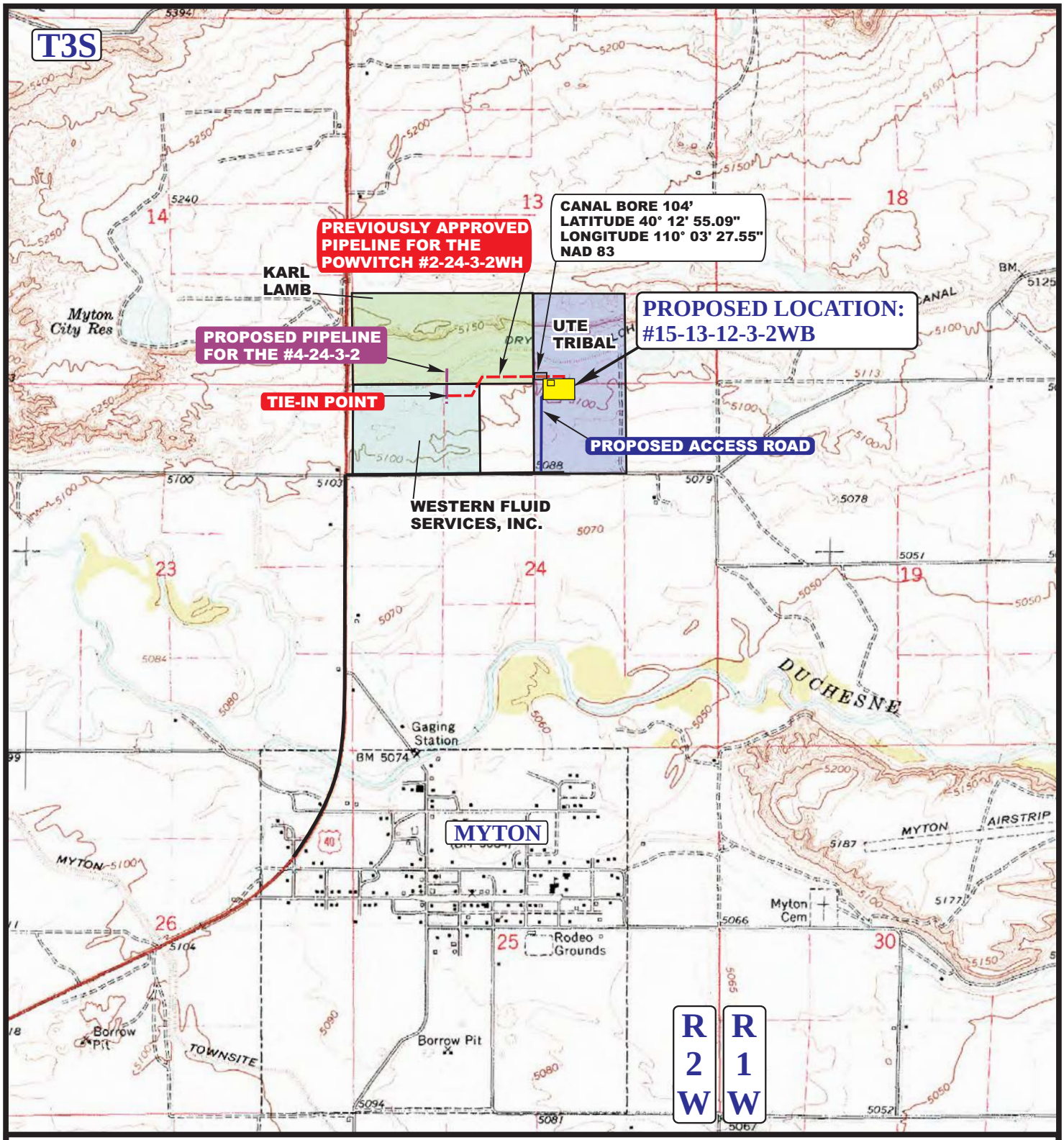
N

NEWFIELD EXPLORATION COMPANY

#15-13-12-3-2WB
SECTION 24, T3S, R2W, U.S.B.&M.
NW 1/4 NE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	02 MONTH	14 DAY	12 YEAR
SCALE: 1" = 2000'	DRAWN BY: B.D.H.	REV: 07-30-14 L.S.	C TOPO



APPROXIMATE TOTAL PIPELINE DISTANCE =1,870' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)

N

NEWFIELD EXPLORATION COMPANY

#15-13-12-3-2WB
SECTION 24, T3S, R2W, U.S.B.&M.
NW 1/4 NE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	02 MONTH	14 DAY	12 YEAR	D TOPO
SCALE: 1" = 2000'	DRAWN BY: B.D.H.	REV: 07-30-14 L.S.		

NEWFIELD

Newfield Exploration Company
1001 17th Street | Suite 2000
Denver, Colorado 80202
PH 303-893-0102 | FAX 303-893-0103

August 12, 2014

State of Utah
Division of Oil, Gas & Mining
ATTN: Brad Hill
PO Box 145801
Salt Lake City, UT 84114

RE: Powvitch 15-13-12-3-2WB
Township 3 South, Range 2 West, Sections 12 & 13
Duchesne County, Utah

Dear Mr. Hill:

Newfield Production Company ("Newfield") proposes to drill the Powvitch 15-13-12-3-2WB from a surface location of 75' FNL and 2332' FEL of Section 24, T3S-R2W, to a bottom hole location of 525' FNL and 1980' FEL of Section 12, T3S-R2W.

The Powvitch 15-13-12-3-2WB is covered by Order No. 139-120, which requires that no producing interval of the horizontal lateral be closer than 660' from the drilling unit boundaries, and requires proper surface and sub-surface authorization be obtained when the surface location is located off of the drilling unit.

In compliance with the above referenced Order, the top of the producing interval of the Powvitch 15-13-12-3-2WB is 660' FSL and 1980' FEL of T3S-R2W Section 13, and the bottom of the producing interval is 660' FNL 1980' FEL of Section 12. Newfield shall case and cement the Powvitch 15-13-12-3-2WB from the surface location to the point where the wellbore reaches the legal setback, and the wellbore will only be completed within the legal setback.

In further compliance of the above referenced Order, Newfield has obtained authorization from the surface owner of the drilling location, as is evidenced by the Affidavit of Easement, Right-of-Way and Surface Use Agreement attached to the APD. Newfield and its partners are leasehold owners of minerals underlying the surface location and all that portion of the wellbore of the Powvitch 15-13-12-3-2WB.

Based on Newfield's compliance with the requirements of Order No. 139-120, Newfield respectfully requests the approval of our APD for the Powvitch 15-13-12-3-2WB.

Should you have questions or require further information, please do not hesitate to contact the undersigned at 303-383-4122 or by email at tdalbec@newfield.com. Your consideration of this matter is greatly appreciated.

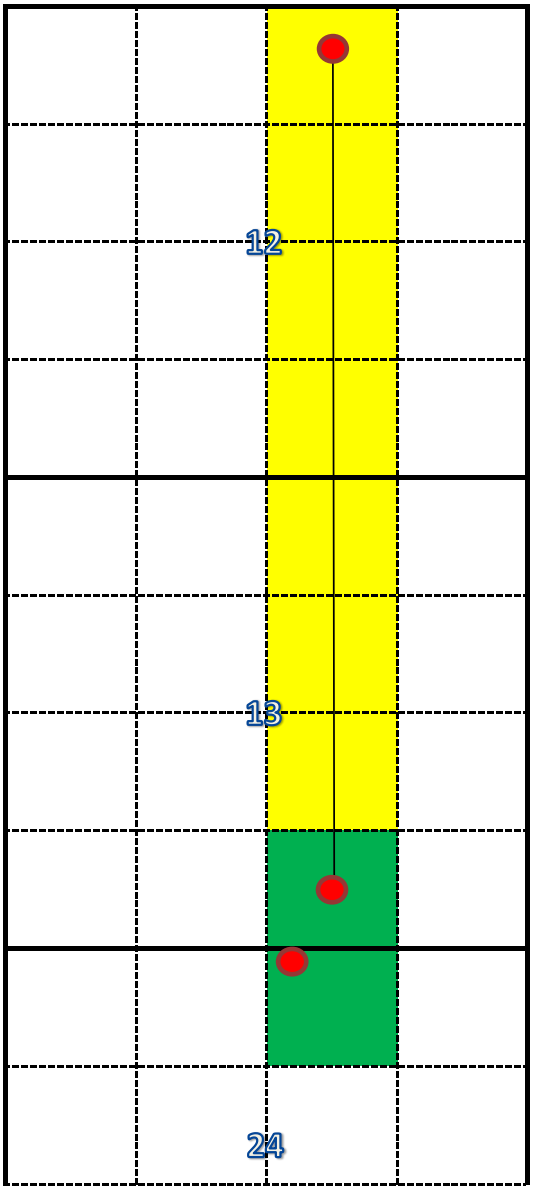
My Regards,

Thomas Dalbec
Land Tech
Newfield Exploration Company

Plat depiction including Lease Numbers

Powvitch 15-13-12-3-2WB

SHL 75' FNL & 2332' FEL of Section 24
Top of Producing Interval 660' FSL & 1980' FEL of Section 13
Bottom of Producing Interval 660' FNL & 1980' FEL of Section 12
BHL 525' FNL & 1980' FWL of Section 12



Lessor: Fee Simple Interest
Legal: Sec. 12 W2E2

Lessor: Fee Simple Interest
Legal: Sec. 13 W2NE, NWSE

Lease: 14-20-H62-6173
Lessor: Heirs of ANNIE POWVITCH
Legal: Sec. 13 SWSE

Lease: 14-20-H62-6176
Lessor: Heirs of ANNIE POWVITCH
Legal: Sec. 24 NWNE

Fee Simple or State Minerals

Allotted Trust Minerals

Ute Tribe Trust Minerals

Federal Minerals

RECEIVED: Sep. 11, 2014

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Pete Martin Rig #16
Submitted By Kylan Cook Phone Number 435-790-8236
Well Name/Number Powvitch 15-13-12-3-2WB
Qtr/Qtr NW/NE Section 24 Township 3S Range 2W
Lease Serial Number 14-20-H62-6176
API Number 43-013-51942

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 09/13/2014 09:30 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time _____ _____ AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time _____ _____ AM ☐ PM ☐

Remarks _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-6176

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: POWVITCH 15-13-12-3-2WB

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013519420000

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: NORTH MYTON BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0075 FNL 2332 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 24 Township: 03.0S Range: 02.0W Meridian: U

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☑ SPUD REPORT Date of Spud: 9/14/2014	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Pete Martin Rig #16 spudded 26" hole on 09/14/2014 and drilled to 60' GL. Set 20", 52.78# (0.250" wall), SA53B conductor pipe at 60' GL and cemented to surface with Redi Mix. Kylan Cook notified UDOGM and BLM by e-mail @ 09:30 AM on 09/12/2014 to spud conductor hole on 09/13/2014.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
October 14, 2014

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Cherei Neilson	435 646-4883	Drilling Techinacian
SIGNATURE N/A		**DATE** 10/13/2014

RECEIVED: Oct. 13, 2014

NEWFIELD

Casing

Conductor

Legal Well Name	Wellbore Name
Powvitch 15-13-12-3-2WB	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013519420000	NWNE 75FNL 2332FEL SEC24 T3S R2W MERU	UINTA CB - BAR F HORZ	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500358785	Duchesne	Utah		

Wellbore

Wellbore Name	Kick Off Depth (ftKB)
Original Hole	

Section Des	Size (in)	Actual Top Depth (MD) (ftKB)	Actual Bottom Depth (MD) (ftKB)	Start Date	End Date
Conductor	26	26	86	9/14/2014	9/14/2014

Wellhead

Type	Install Date	Service	Comment

Wellhead Components

Des	Make	Model	SN	WP Top (psi)

Casing

Casing Description	Set Depth (ftKB)	Run Date	Set Tension (kips)
Conductor	86	9/14/2014	

Centralizers	Scratchers

Casing Components

Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	Mk-up Tq (ft•lb)	Class	Max OD (in)
Conductor Pipe	20	19.000	52.78	SA53B	Welded	2	60.00	26.0	86.0			

Jewelry Details

External Casing Packer

Type	Setting Requirement	Release Requirements	Inflation Method	Vol Inflation (gal)	Equiv Hole Sz (in)

Inflation Fluid Type	Infl Fl Dens (lb/gal)	P AV Set (psi)	AV Acting Pressure (psi)	P ICV Set (psi)	P ICV Act (psi)	ECP Load (1000lbf)	Seal Load (1000lbf)

Slotted Liner

% Open Area (%)	Perforation Min Dimension (in)	Perforation Max Dimension (in)	Axial Perf Spacing (ft)	Perf Rows	Blank Top Length (ft)	Blank Bottom Length (ft)

Slot Description	Slot Pattern	Slot Length (in)	Slot Width (in)	Slot Frequency	Screen Gauge (ga)

Liner Hanger

Retrievable?	Elastomer Type	Element Center Depth (ft)	Polish Bore Size (in)	Polish Bore Length (ft)

Slip Description	Set Mechanics

Setting Procedure

Unsetting Procedure

RECEIVED: Oct. 13, 2014

NEWFIELD

Casing

Surface

Legal Well Name	Wellbore Name
Powvitch 15-13-12-3-2WB	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013519420000	NWNE 75FNL 2332FEL SEC24 T3S R2W MERU	UINTA CB - BAR F HORZ	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500358785	Duchesne	Utah		

Wellbore

Wellbore Name	Kick Off Depth (ftKB)
Original Hole	

Section Des	Size (in)	Actual Top Depth (MD) (ftKB)	Actual Bottom Depth (MD) (ftKB)	Start Date	End Date
Conductor	26	26	86	9/14/2014	9/14/2014
Vertical	17 1/2	86	1,676	9/15/2014	9/17/2014
Vertical	12 1/4	1,676	8,023	9/17/2014	10/6/2014

Wellhead

Type	Install Date	Service	Comment

Wellhead Components

Des	Make	Model	SN	WP Top (psi)

Casing

Casing Description	Set Depth (ftKB)	Run Date	Set Tension (kips)
Surface	1,663	9/18/2014	

Centralizers	Scratchers
14 centralizers spaced 10' from the shoe, on top of joints #2 & #3 then every 3rd collar to surface.	

Casing Components

Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	Mk-up Tq (ft•lb)	Class	Max OD (in)
Casing Joints	13 3/8	12.615	54.50	J-55	BTC	38	1,593.97	25.8	1,619.8			
Float Collar	13 3/8	12.615			BTC	1	1.50	1,619.8	1,621.3			
Casing Joints	13 3/8	12.615	54.50	J-55	BTC	1	40.72	1,621.3	1,662.0			
Guide Shoe	13 3/8	12.615			BTC	1	1.00	1,662.0	1,663.0			

Jewelry Details

External Casing Packer

Type	Setting Requirement	Release Requirements	Inflation Method	Vol Inflation (gal)	Equiv Hole Sz (in)

Inflation Fluid Type	Infl Fl Dens (lb/gal)	P AV Set (psi)	AV Acting Pressure (psi)	P ICV Set (psi)	P ICV Act (psi)	ECP Load (1000lbf)	Seal Load (1000lbf)

Slotted Liner

% Open Area (%)	Perforation Min Dimension (in)	Perforation Max Dimension (in)	Axial Perf Spacing (ft)	Perf Rows	Blank Top Length (ft)	Blank Bottom Length (ft)

Slot Description	Slot Pattern	Slot Length (in)	Slot Width (in)	Slot Frequency	Screen Gauge (ga)

Liner Hanger

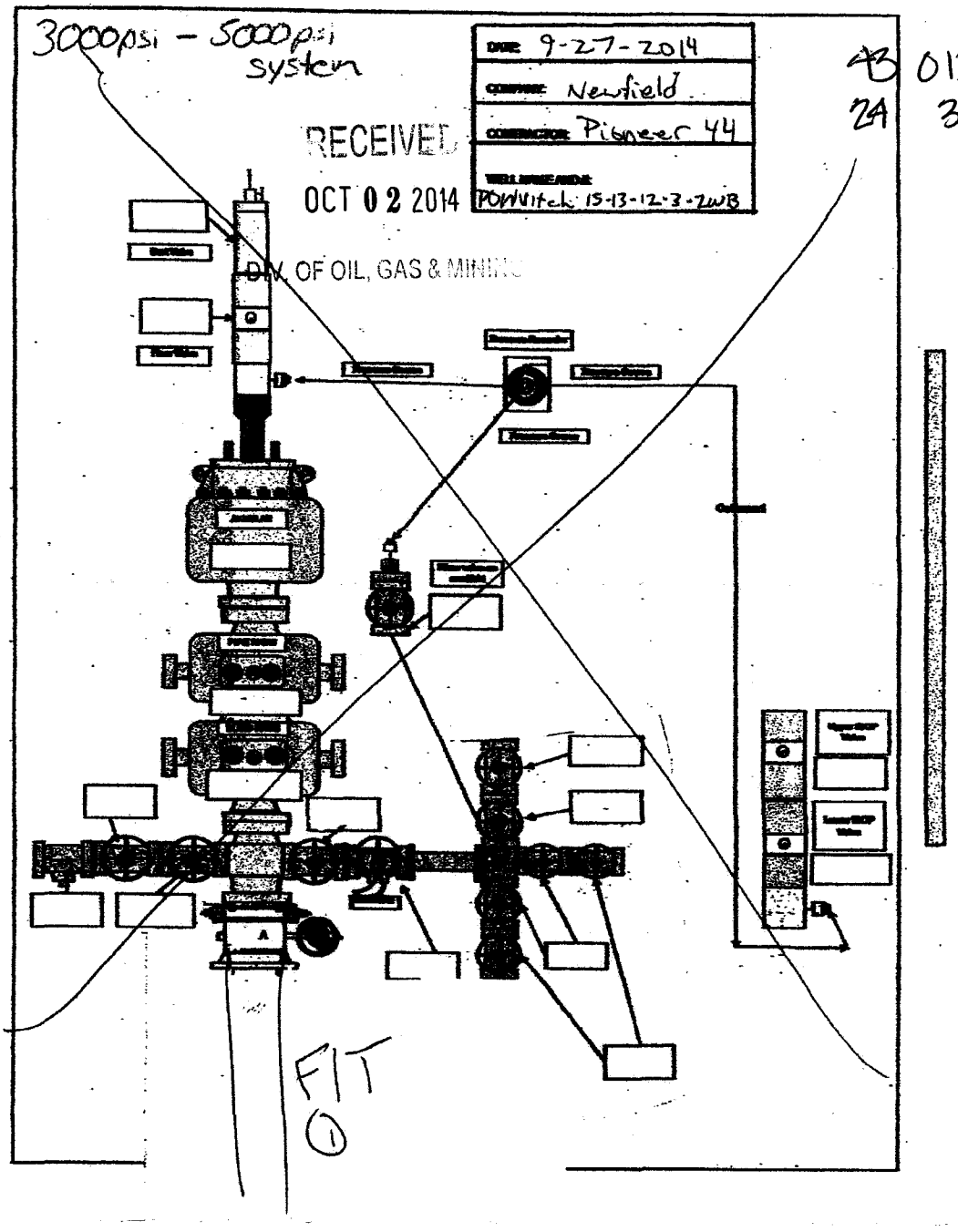
Retrievable?	Elastomer Type	Element Center Depth (ft)	Polish Bore Size (in)	Polish Bore Length (ft)

Slip Description	Set Mechanics

Setting Procedure

Unsetting Procedure

RECEIVED: Oct. 13, 2014


3000psi – 5000psi system
DATE 9-27-2014
COMPANY Newfield
CONTRACTOR Pioneer 44
WELL NAME AND NUMBER Ponderosa 15-13-12-3-2WB
RECEIVED
OCT 02 2014
DIV. OF OIL, GAS & MINING
43 013 51942
2A 3S 2W
FIT
①

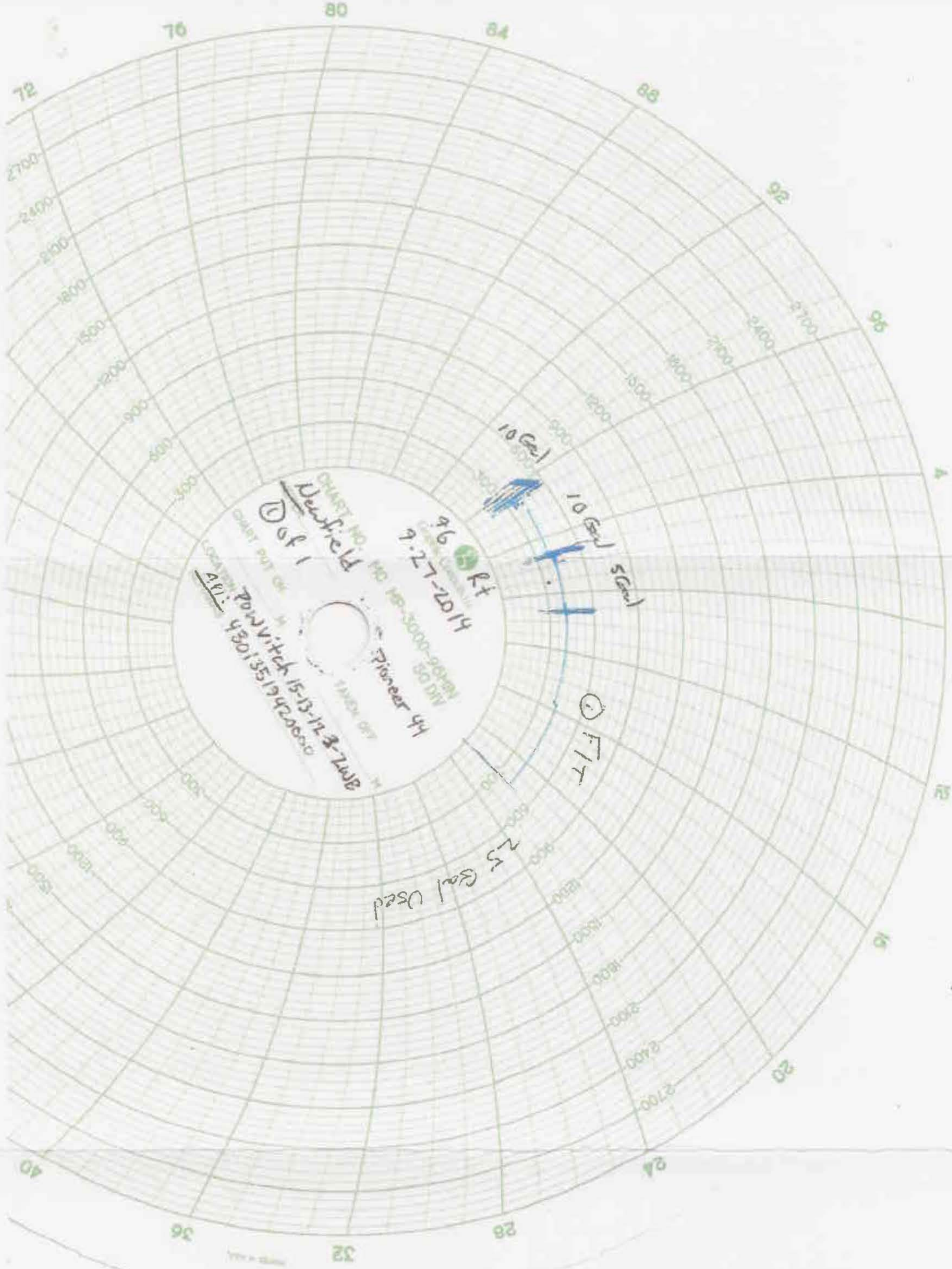


CHART NO. MC MP-3000-24HR
50 DIV
Newfield
① of 1
96 Rt
9-27-2014
Pioneer 44
API: 43013519420000
10 Gal
10 Gal
5 Gal
25 Gal Used

688

WALKER INSPECTION,LLC.
REBEL TESTING · EAGER BEAVER TESTERS
WYOMING · COLORADO · NORTH DAKOTA

Daily JSA/Observation Report

OPERATOR: Newfield

DATE: 9-27-2014

LOCATION: Pawnee 15-13-12-3-2WB

CONTRACTOR: Pioneer 44

EMPLOYEE NAME: Dustin Redmond

- [ ] High Pressure Testing
- [ ] Working Below Platform
- [ ] Requires PPE
- [ ] Overhead Work is Occurring
- [ ] Fill in if: Confined Spaces are Involved
- [ ] Fill in if: Set up of Containment
- [ ] Using Rig Hoist to Lift Tools
- [ ] Fill in if: Other:

COMMENTS: Safety awareness

SIGNATURE:

DATE: 9-27-2014

WALKER INSPECTION, LLC. AND AFFILIATES

ATTENDANCE:

Sam Rondo		

Observation Report

EMPLOYEE REPORTING: Dustin Redmond SIGNATURE:

Was job set up and performed correctly and to best of companies ability? (Y) N

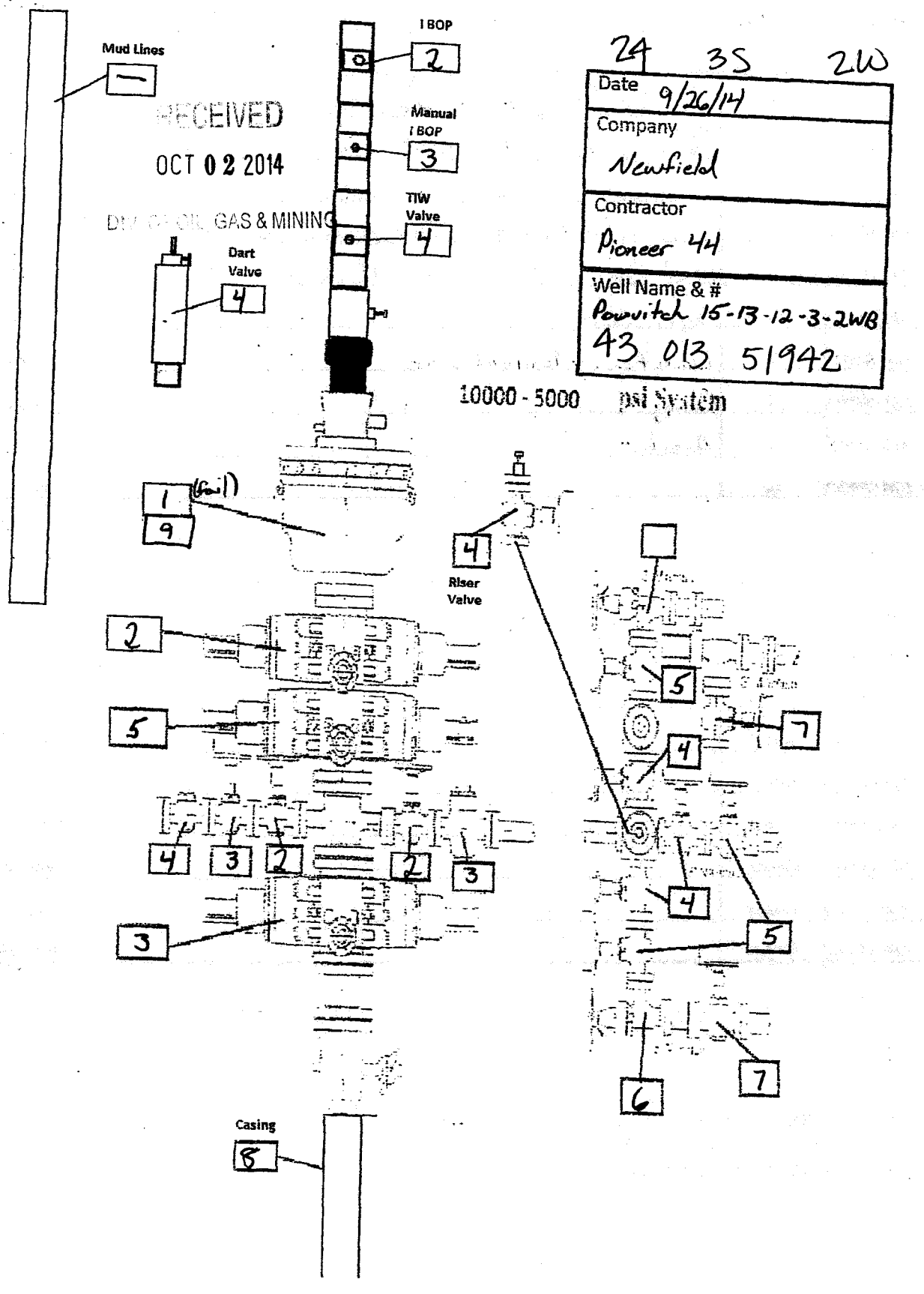
Was all safety equipment used correctly by all involved? (Y) N

Any incidents or near misses to report about WI? Y (N)

Any incidents or near misses to report in general? Y (N)

Any spills or environemental issues to report? Y / (N)

Basic Comments:



24 3S 2W

Date 9/26/14

Company Newfield

Contractor Pioneer 44

Well Name & #
Powwitch 15-13-12-3-2WB
43 013 51942

DATE: 9/26/14 COMPANY: Newfield RIG: Pioneer 44 WELL NAME & #: Powitch 15-13-12-3-2UB

Time	Test No.		Results
NO TEST AM □PM□	1	Annular (caught no pressure)	Pass □Fail ☒
3:47 AM ☒PM□	2	Upper ~~Lower~~ Pipe Rams, Hyd. IBOP, Inside Kill, Manual	Pass ☒Fail □
4:11 AM ☒PM□	3	Lower Pipe Rams, Man. IBOP, HCR, Outside Kill	Pass ☒Fail □
4:44 AM ☒PM□	4	Check Valve, Dart Valve, TIW, Inside Choke Manifold, Riser Valve	Pass ☒Fail □
5:25 AM ☒PM□	5	Blind Rams, Outside Choke Manifold	Pass ☒Fail □
5:55 AM ☒PM□	6	Super Choke	Pass ☒Fail □
6:27 AM ☒PM□	7	Downstream Manifold Valves	Pass ☒Fail □
7:08 AM ☒PM□	8	Casing	Pass ☒Fail □
3:22 AM □PM☒	9	Annular	Pass ☒Fail □
AM □PM□	10		Pass □Fail □
AM □PM□	11		Pass □Fail □
AM □PM□	12		Pass □Fail □
AM □PM□	13		Pass □Fail □
AM □PM□	14		Pass □Fail □
AM □PM□	Retest		Pass □Fail □
AM □PM□	Retest		Pass □Fail □
AM □PM□	Retest		Pass □Fail □
AM □PM□	Retest		Pass □Fail □
AM □PM□	Retest		Pass □Fail □
AM □PM□	Retest		Pass □Fail □
AM □PM□	Retest		Pass □Fail □

Acc. Tank Size (inches): (W D L) ÷ 231= gal.

Rock Springs, WY (307) 382-3350

BOP TESTING, CASING TESTING, LEAK OFF TESTING, & INTEGRITY TESTING

NIPPLE UP CREWS, NITROGEN CHARGING SERVICE

DATE: 9/26/14 **ACCUMULATOR FUNCTION TEST**

WELL: Pawnee 15-13-12-3-2WB

TO CHECK THE USABLE FLUID STORED IN THE NITROGEN BOTTLES ON THE ACCUMULATOR (OO #2 III.A.2.c.i. or ii or iii)

1. *Make sure all rams and annular are open and if applicable HCR is closed*
2. *Ensure accumulator is pumped up to working pressure! (Shut off all pumps)*
3. *Open HCR valve. (If applicable)*
4. *Close annular.*
5. *Close all pipe rams.*
6. *Open one set of pipe rams to simulate closing the blind rams.*
7. *If you have a 3 Ram stack open the annular to achieve the 50 +/- % safety factor for 5M and greater systems.*
8. *Accumulator pressure should be 200 psi over precharge pressure (Accumulator working pressure (1,500 psi = 750 desired psi) (2,000 and 3,000 psi = 1,000 desired psi)).*

9. RECORD THE REMAINING PRESSURE 1700 *PSI*

If annular is closed, open it at this time and close HCR.

TO CHECK THE CAPACITY OF THE ACCUMULATOR PUMPS (OO #2 III.A.2.f.)

Shut the accumulator bottles or spherical (Isolate them from the pumps & manifold) open the bleed off valve to the tank (Manifold psi should go to zero psi) close bleed valve.

1. *Open the HCR valve. (If applicable)*
2. *Close annular.*
3. *With pumps only, time how long it takes to re- gain manifold presssure to 200 psi over desired precharge pressure! (Accumulator working pressure (1,500 psi = 750 psi desired psi) (2,000 and 3,000 psi = 1,000 desired psi)).*

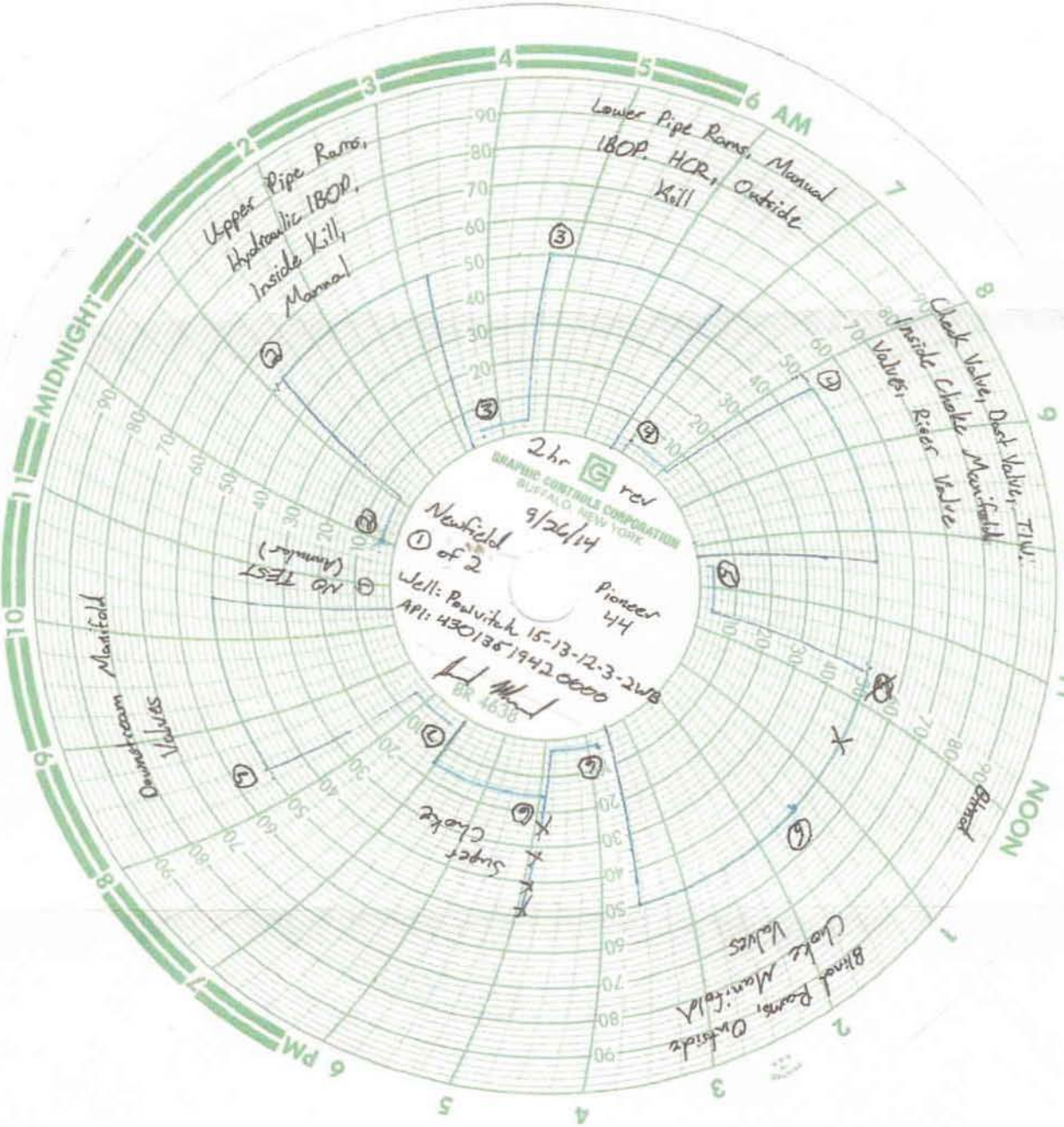
4. RECORD ELAPSED TIME 0 min 54 sec ***PSI (2 minutes or less)***

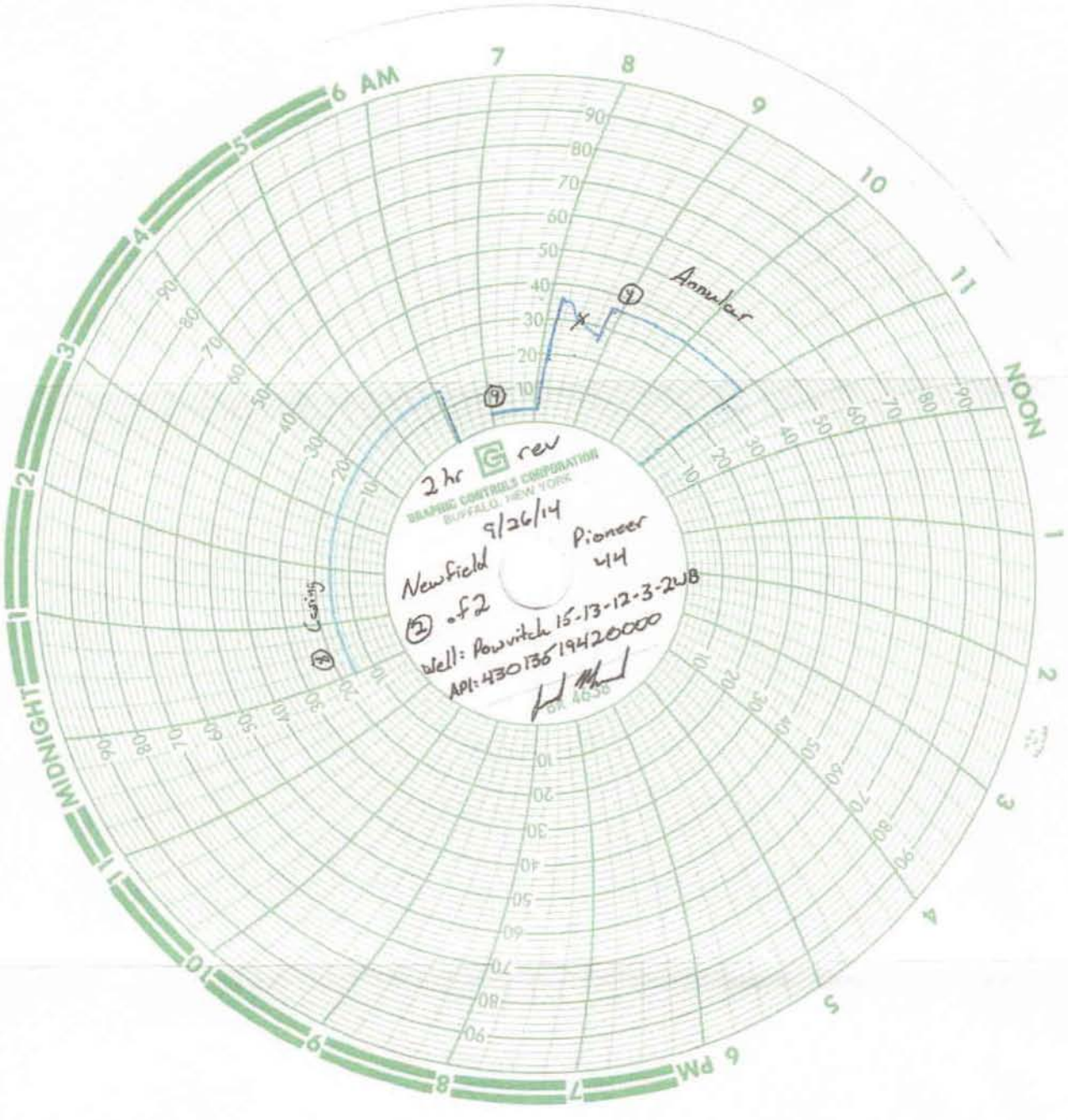
TO CHECK THE PRECHARGE ON THE BOTTLES OR SPHERICAL (OO #2 III.A.2.d.)

1. *Open bottles back up to the manifold (pressure should be above the desired precharge pressure (1,500 psi = 750 psi desired psi) (2,000 and 3,000 psi = 1,000 desired psi)) may need to use pumps to pressure back up.*
2. *With power to pumps shut off open bleed line to tank.*
3. *Watch and record where the pressure drops (Accumulator psi).*

4. RECORD THE PRESSURE DROP 900 *PSI*

If pressure drops below MINIMUM precharge (Accumulator working pressure (1,500 psi = 700 psi minimum) (2,000 and 3,000 psi = 900 psi minimum)) each bottle shall be independently checked with a guage.


Upper Pipe Rams, Hydraulic, IBOP, Inside Kill, Manual
Lower Pipe Rams, Manual IBOP, HCR, Outside Kill
Check Valve, Dart Valve, TIW
Inside Choke Manifold Valves, Riser Valve
Blind
Outside Choke Manifold Valves
Super Choke
Downstream Manifold Valves
NO TEST (Annular)
2hr rev
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
9/26/14
Newfield
1 of 2
Pioneer 44
Well: Rowitch 15-13-12-3-2WB
API: 430135194200000
BK 1630
MIDNIGHT
6 AM
NOON
6 PM


6 AM
7
8
9
10
11
NOON
1
2
3
4
5
6 PM
7
8
9
10
11
MIDNIGHT
1
2
3
4
5
6
7
8
9
10
11
Annular
Casing
2 hr
rev
9/26/14
Pioneer
44
Newfield
of 2
well: Rowitch 15-13-12-3-2W8
API: 43013519420000

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Pioneer 44 Submitted By Sam Loredo/ Walt Bowen Phone Number 970/623/7080
Well Name/Number Powvitch 15-13-12-3-2WB
Qtr/Qtr NE/NW Section 24 Township 3S Range 2W
Lease Serial Number 14-20-H62-6176
API Number 43013519420000

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

☐ Surface Casing
☒ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

Date/Time 10-7-2014 12:01 AM ☐ PM ☒

BOPE

☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ _____ AM ☐ PM ☐

Remarks We Will Be Running 9-5/8" Intermediate Casing on the Powvitch 15-13-12-3-2 WB.

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Pioneer 44 Submitted By Sam Loredo/ Walt Bowen Phone Number 970/623/7080
Well Name/Number Powvitch 15-13-12-3-2WB
Qtr/Qtr NE/NW Section 24 Township 3S Range 2W
Lease Serial Number 14-20-H62-6176
API Number 43013519420000

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

☐ Surface Casing
☐ Intermediate Casing
☒ Production Casing
☐ Liner
☐ Other

Date/Time 10-23-2014 11:00 AM ☐ PM ☒

BOPE

☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ _____ AM ☐ PM ☐

Remarks We Will Be Running 5-1/2" Production Casing on the Powvitch 15-13-12-3-2 WB Starting at 23:00 Hrs 10-23-14 to 06:00 Hours 10-24-14.

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Pioneer 44 Submitted By Sam Loredo/ Walt Bowen Phone Number 970/623/7080
Well Name/Number Powvitch 15-13-12-3-2WB
Qtr/Qtr NE/NW Section 24 Township 3S Range 2W
Lease Serial Number 14-20-H62-6176
API Number 43013519420000

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

☐ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☒ Other

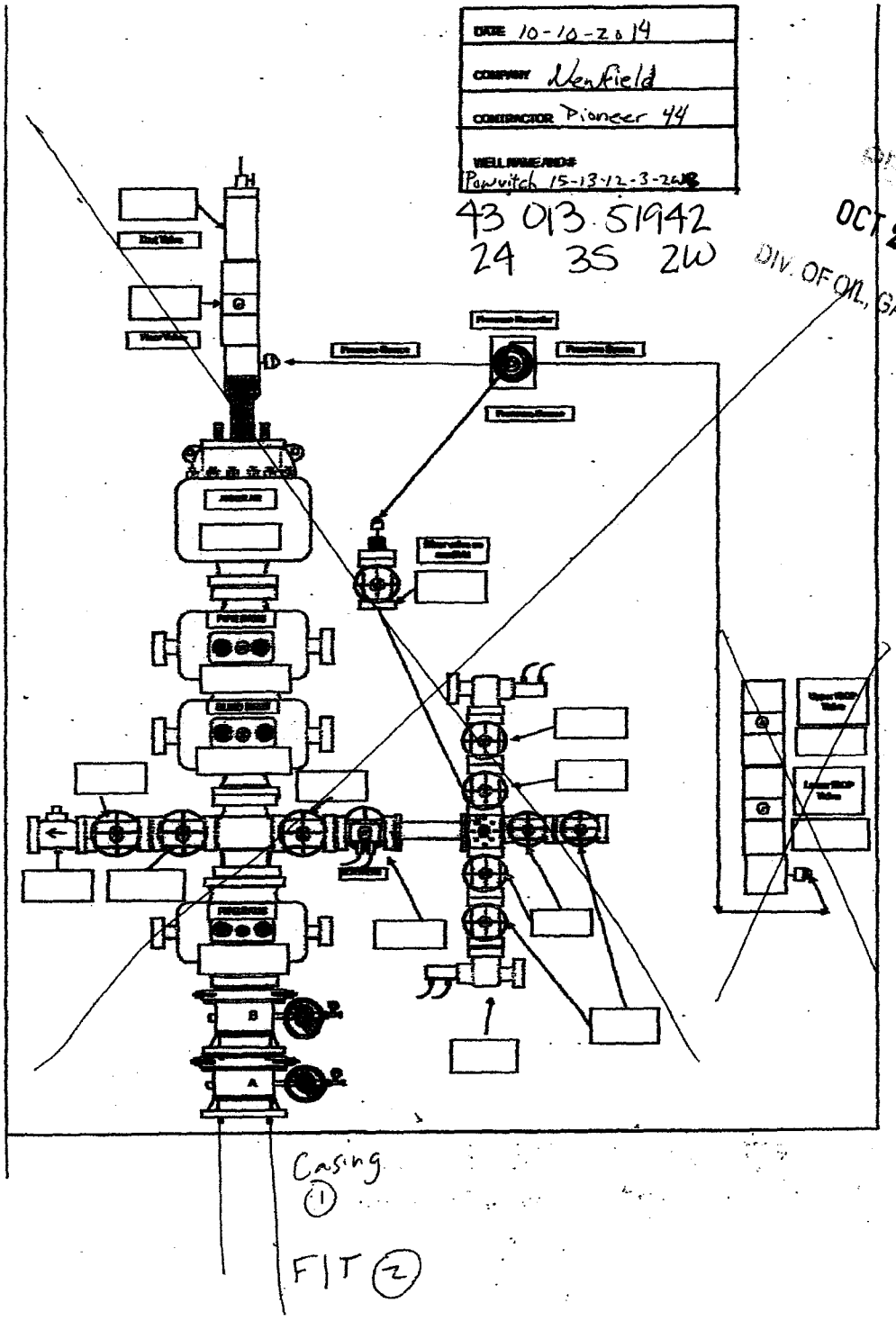
Date/Time 10-22-2014 13:30 AM ☐ PM ☒

BOPE

☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ _____ AM ☐ PM ☐

Remarks We have reached TD at 17,977' on the Powvitch 15-13-12-3-2 WB.


DATE 10-10-2014
COMPANY Newfield
CONTRACTOR Pioneer 44
WELL NAME AND #
Powwitch 15-13-12-3-2W
43 013 51942
24 35 2W
RECEIVED
OCT 21 2014
DIV. OF OIL, GAS & MINING
Casing
(1)
FIT (2)

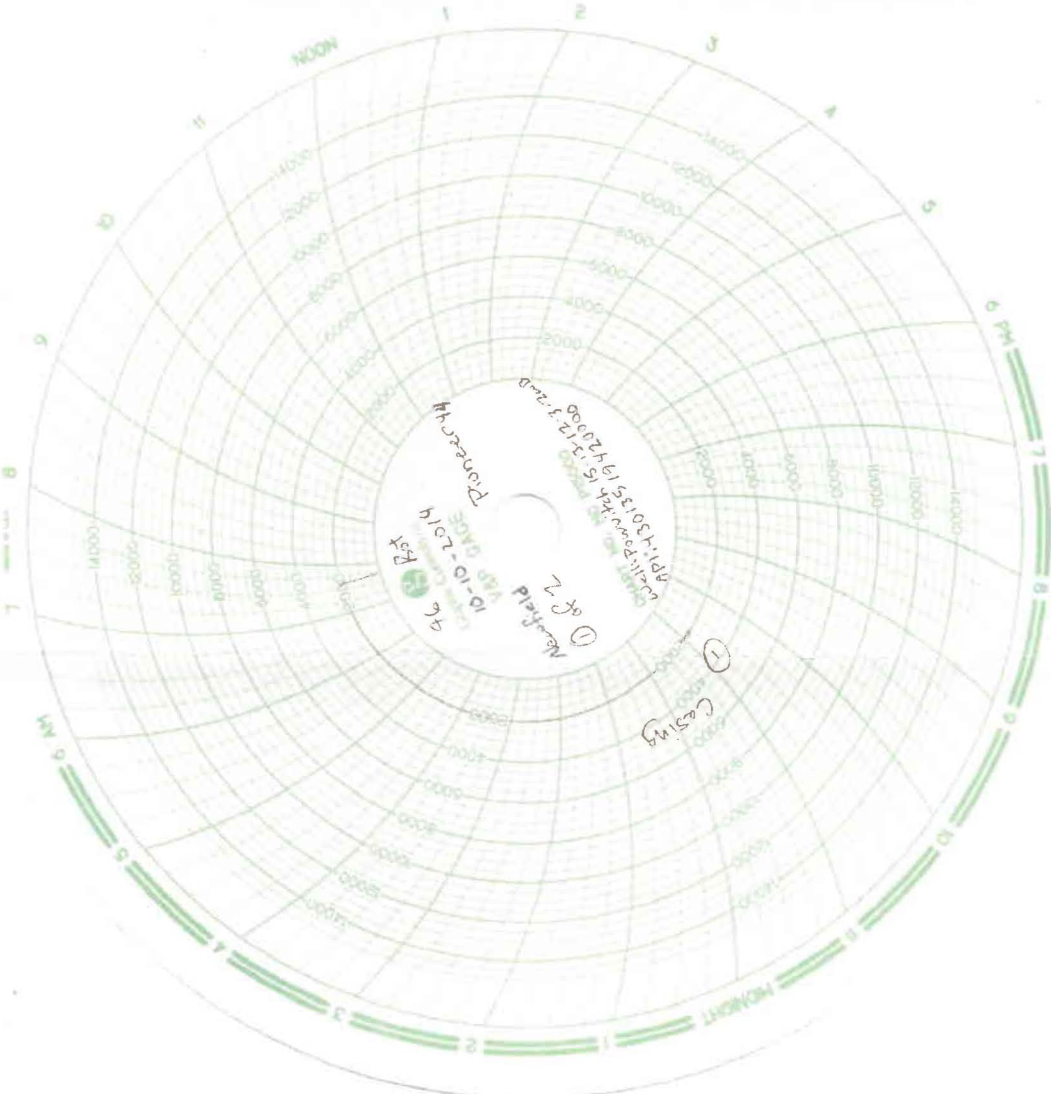
DATE: 10-10-14 COMPANY: Newfield RIG: Pioneer 44 WELL NAME & #: Powell 15-13-12-3-2WB

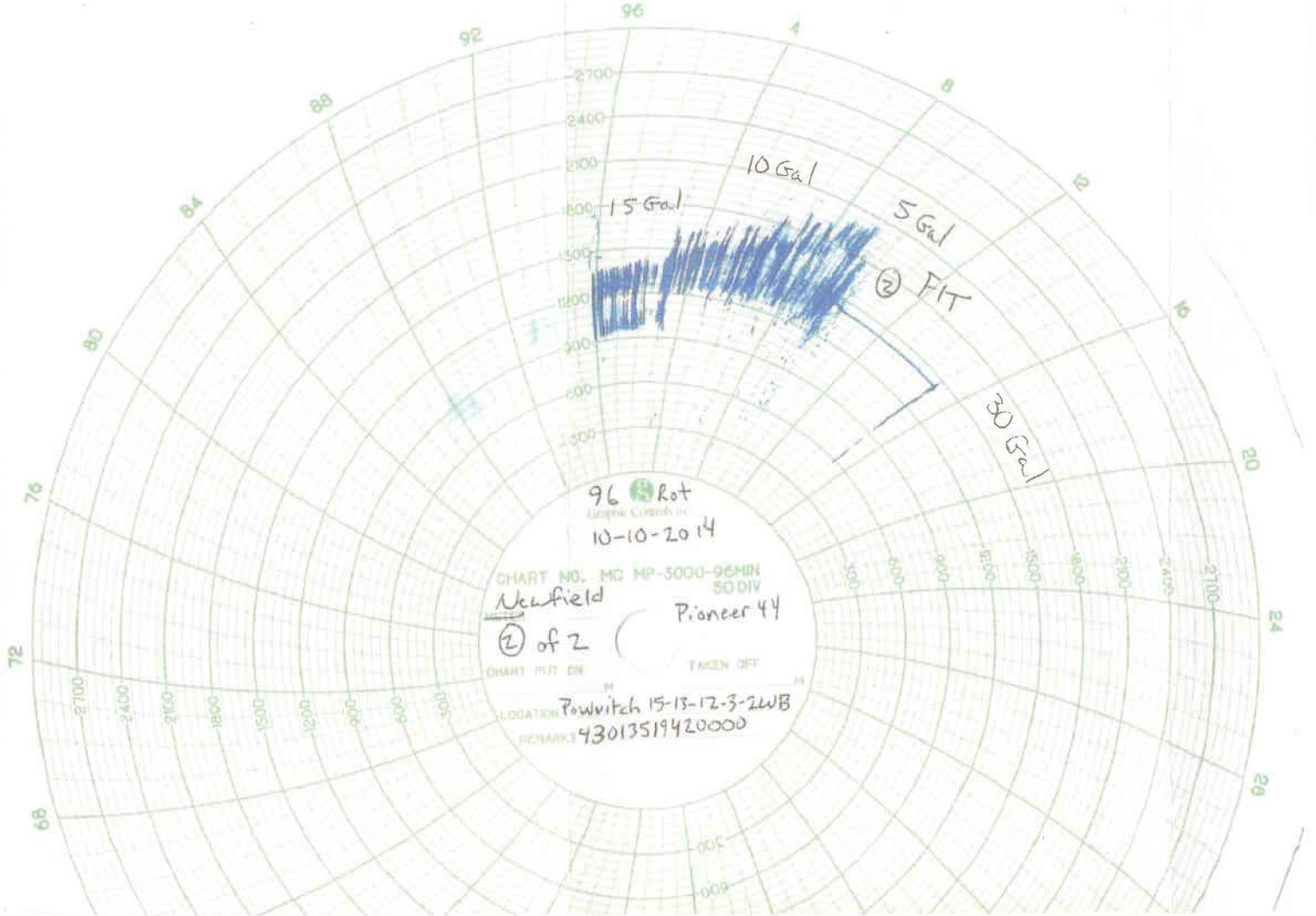
Time	Test No.		Results
8:31 AM ☒PM☐	1	Casing	Pass ☒Fail ☐
1:22 AM ☐PM☒	2	FIT Test	Pass ☒Fail ☐
AM ☐PM☐	3		Pass ☐Fail ☐
AM ☐PM☐	4		Pass ☐Fail ☐
AM ☐PM☐	5		Pass ☐Fail ☐
AM ☐PM☐	6		Pass ☐Fail ☐
AM ☐PM☐	7		Pass ☐Fail ☐
AM ☐PM☐	8		Pass ☐Fail ☐
AM ☐PM☐	9		Pass ☐Fail ☐
AM ☐PM☐	10		Pass ☐Fail ☐
AM ☐PM☐	11		Pass ☐Fail ☐
AM ☐PM☐	12		Pass ☐Fail ☐
AM ☐PM☐	13		Pass ☐Fail ☐
AM ☐PM☐	14		Pass ☐Fail ☐
AM ☐PM☐	Retest		Pass ☐Fail ☐
AM ☐PM☐	Retest		Pass ☐Fail ☐
AM ☐PM☐	Retest		Pass ☐Fail ☐
AM ☐PM☐	Retest		Pass ☐Fail ☐
AM ☐PM☐	Retest		Pass ☐Fail ☐
AM ☐PM☐	Retest		Pass ☐Fail ☐
AM ☐PM☐	Retest		Pass ☐Fail ☐

Acc. Tank Size (inches): ____ W ____ D ____ L) ÷ 231= ____ gal.

Rock Springs, WY (307) 382-3350

BOP TESTING, CASING TESTING, LEAK OFF TESTING, & INTEGRITY TESTING
NIPPLE UP CREWS, NITROGEN CHARGING SERVICE


NOON
6 PM
MIDNIGHT
6 AM
VBP GAGE
10-10-2019
Newfield
1 of 2
Casing


15 Gal
10 Gal
5 Gal
② FIT
30 Gal
96 Rot
10-10-2014
CHART NO. MC MP-3000-96HR
50 DIV
Newfield
② of 2
Pioneer 44
CHART PUT ON
TAKEN OFF
LOCATION Powwitch 15-13-12-3-2WB
REMARKS 43013519420000

692

WALKER INSPECTION,LLC.
REBEL TESTING · EAGER BEAVER TESTERS
WYOMING · COLORADO · NORTH DAKOTA

Daily JSA/Observation Report

OPERATOR: Newfield
DATE: 10-10-2014
LOCATION: Powvitch 15-13-12-3 2WB
CONTRACTOR: Pioneer 44
EMPLOYEE NAME: Dustin Redmond

[Fill in if:] High Pressure Testing
[Fill in if:] Working Below Platform
[Fill in if:] Requires PPE
[Fill in if:] Overhead Work is Occurring
[Fill in if:] Confined Spaces are Involved
[Fill in if:] Set up of Containment
[Fill in if:] Using Rig Hoist to Lift Tools
[Fill in if:] Other:

COMMENTS: Safety used

SIGNATURE:
DATE: 10-10-2014

WALKER INSPECTION, LLC. AND AFFILIATES
ATTENDANCE:

Observation Report

EMPLOYEE REPORTING: Dustin Redmond SIGNATURE:

Was job set up and performed correctly and to best of companies ability? (Y) / N

Was all safety equipment used correctly by all involved? (Y) / N

Any incidents or near misses to report about WI? Y / (N)

Any incidents or near misses to report in general? Y / (N)

Any spills or environemental issues to report? Y / (N)

Basic Comments:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-6176

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: POWVITCH 15-13-12-3-2WB

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013519420000

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: NORTH MYTON BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0075 FNL 2332 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 24 Township: 03.0S Range: 02.0W Meridian: U

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 12/16/2014	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above well was placed on production (flowing) on 12/16/2014 at 13:00 hours.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
December 19, 2014

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jennifer Peatross	435 646-4885	Production Technician
SIGNATURE N/A		**DATE** 12/19/2014

RECEIVED: Dec. 19, 2014

Form 3160-4
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2014

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: 1420H626176

1a. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other: _____

6. If Indian, Allottee or Tribe Name: UINTAH AND OURAY
7. Unit or CA Agreement Name and No.:

2. Name of Operator: NEWFIELD PRODUCTION COMPANY
8. Lease Name and Well No.: POWWITCH 15-13-12-3-2WB

3. Address: ROUTE #3 BOX 3630, MYTON, UT 84052
3a. Phone No. *(include area code)*: Ph:435-646-3721
9. API Well No.: 43-013-51942

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**
10. Field and Pool or Exploratory: NATURAL BUTTES

At surface: 75' FNL 2332' FEL (NW/NE) SEC 24 T3S R2W
11. Sec., T., R., M., on Block and Survey or Area: SEC 24 T3S R2W

At top prod. interval reported below: 756' FSL 1835' FEL (NW/NE) SEC 13 T3S R2W

At total depth: 589' FNL 1975' FEL (NW/NE) SEC 12 T3S R2W

12. County or Parish: DUCHESNE
13. State: UT

14. Date Spudded: 09/21/2014
15. Date T.D. Reached: 10/28/2014
16. Date Completed: ☐ D & A ☑ Ready to Prod. 12/17/2014
17. Elevations (DF, RKB, RT, GL)*: 5109' GL 5135' KB

18. Total Depth: MD 17967 TVD 10071
19. Plug Back T.D.: MD 17920 TVD
20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
DUAL IND GRD, SP, COMP. NEUTRON, GR, CALIPER, CMT BOND

22. Was well cored? ☐ No ☐ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☑ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
19"	13-3/8" J-55	54.50	0'	1663'		1091 CLASS G			
12-5/8"	9-5/8" N-80	40	0'	8014'		1025 Versacem			
						590Expandacem			
8-7/8"	5-1/2" P-110	20	0'	17,967		1265 Tergovis			
						2090 Elasticem			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT@7945'	XN@7900'						

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Wasatch	8612'	17,378	8612' - 17378'	0.38	1062	
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
8612' - 17378'	Frac w/ 8,500,419#s of proppant sand in 147,387 bbls of clean fluid, in 41 stages.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
12/19/14	12/29/14	24	→	1019	627	2407			Flowing

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					PRODUCING

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					

*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

29. Disposition of Gas *(Solid, used for fuel, vented, etc.)*

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GARDEN GULCH MEMBER	6073'
				GARDEN GULCH 2	6469'
				DOUGLAS CREEK	7171'
				B LIMESTON	7754'
				CASTLE PEAK	8044'
				UTELAND BUTTE	8330'

32. Additional remarks (include plugging procedure):

Bottom Producint Interval:
1060' FNL 1951' FEL (NW/NE) SEC 12 T3S R2W

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☑ Directional Survey
☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☑ Other: Drilling daily activity

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* Heather Calder Title Regulatory Technician

Signature Heather Calder Date 01/20/2015

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Powvitch 15-13-12-3-2WB	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013519420000	NWNE 75FNL 2332FEL SEC24 T3S R2W MERU	UINTA CB - BAR F HORZ	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500358785	Duchesne	Utah	9/21/2014 06:00	10/28/2014 00:00

Actual Deviation Survey	Wellbore Name	Parent Wellbore	Job	VS Dir (°)	Profile Type	Kick Off Depth (ftKB)
Actual, Proposed? No	Original Hole	Original Hole	Drilling - Original, 9/21/2014 06:00			7,069

Date	Definitive?	Description	Proposed?
9/16/2014	No	Actual	No

MD Tie In (ftKB)	TVDTie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (ft)	EWTie In (ft)

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
9/16/2014	26	0.00	0.00	26	0	0	0	0.00	0.00	0.00	0.00	MWD	Payzone
10/5/2014	77	31.43	15.93	75	13	13	4	61.57	61.57	31.20	13.65	MWD	Weatherford
9/16/2014	116	0.18	120.56	112	23	23	7	80.81	-80.23	268.63	24.06	MWD	Payzone
9/16/2014	144	0.26	128.30	140	23	23	7	0.30	0.29	27.64	24.16	MWD	Payzone
9/16/2014	174	0.44	158.84	170	23	23	7	0.84	0.60	101.80	24.34	MWD	Payzone
9/16/2014	205	0.44	173.87	201	23	23	7	0.37	0.00	48.48	24.58	MWD	Payzone
9/16/2014	233	0.70	162.35	229	23	22	7	1.01	0.93	-41.14	24.86	MWD	Payzone
9/16/2014	260	0.31	172.11	256	22	22	7	1.47	-1.44	36.15	25.09	MWD	Payzone
9/16/2014	288	0.70	162.75	284	22	22	7	1.42	1.39	-33.43	25.34	MWD	Payzone
9/16/2014	317	0.70	181.78	313	22	22	7	0.80	0.00	65.62	25.69	MWD	Payzone
9/16/2014	346	0.97	176.81	342	21	21	7	0.96	0.93	-17.14	26.11	MWD	Payzone
9/16/2014	373	1.05	175.80	369	21	21	7	0.30	0.30	-3.74	26.59	MWD	Payzone
9/16/2014	401	0.83	187.53	397	20	20	7	1.04	-0.79	41.89	27.04	MWD	Payzone
9/16/2014	431	1.32	173.47	427	20	20	7	1.84	1.63	-46.87	27.60	MWD	Payzone
9/16/2014	459	1.49	177.03	455	19	19	7	0.68	0.61	12.71	28.29	MWD	Payzone
9/16/2014	493	1.32	175.36	489	18	18	7	0.51	-0.50	-4.91	29.12	MWD	Payzone
9/16/2014	523	1.45	181.56	519	18	17	7	0.66	0.43	20.67	29.85	MWD	Payzone
9/16/2014	553	1.49	182.22	548	17	17	7	0.14	0.13	2.20	30.62	MWD	Payzone
9/16/2014	583	1.36	183.01	578	16	16	7	0.44	-0.43	2.63	31.36	MWD	Payzone
9/16/2014	613	1.32	169.60	608	15	15	7	1.05	-0.13	-44.70	32.06	MWD	Payzone
9/16/2014	643	1.31	169.35	638	15	15	7	0.04	-0.03	-0.83	32.75	MWD	Payzone
9/16/2014	673	0.97	163.76	668	14	14	8	1.19	-1.13	-18.63	33.34	MWD	Payzone
9/16/2014	703	0.88	156.60	698	14	14	8	0.49	-0.30	-23.87	33.83	MWD	Payzone
9/16/2014	733	0.97	151.63	728	13	13	8	0.40	0.30	-16.57	34.31	MWD	Payzone
9/16/2014	763	0.85	139.23	758	13	13	8	0.77	-0.40	-41.33	34.78	MWD	Payzone
9/16/2014	793	0.75	120.96	788	13	12	8	0.91	-0.33	-60.90	35.20	MWD	Payzone
9/16/2014	823	0.83	113.88	818	13	12	9	0.42	0.27	-23.60	35.61	MWD	Payzone
9/16/2014	853	0.97	94.59	848	12	12	9	1.11	0.47	-64.30	36.07	MWD	Payzone
9/16/2014	883	1.05	94.24	878	12	12	10	0.27	0.27	-1.17	36.60	MWD	Payzone
9/16/2014	913	1.27	87.92	908	12	12	10	0.85	0.73	-21.07	37.21	MWD	Payzone
9/16/2014	943	1.71	89.36	938	12	12	11	1.47	1.47	4.80	37.99	MWD	Payzone
9/17/2014	973	1.80	93.93	968	12	12	12	0.55	0.30	15.23	38.91	MWD	Payzone
9/17/2014	1,003	1.89	97.71	998	12	12	13	0.50	0.30	12.60	39.87	MWD	Payzone
9/17/2014	1,033	1.76	94.81	1,028	12	12	14	0.53	-0.43	-9.67	40.83	MWD	Payzone
9/17/2014	1,063	1.36	88.57	1,058	12	12	15	1.45	-1.33	-20.80	41.64	MWD	Payzone
9/17/2014	1,093	1.54	91.21	1,088	12	12	16	0.64	0.60	8.80	42.40	MWD	Payzone
9/17/2014	1,123	1.45	86.20	1,118	12	12	16	0.53	-0.30	-16.70	43.18	MWD	Payzone
9/17/2014	1,153	1.54	80.53	1,148	13	12	17	0.58	0.30	-18.90	43.97	MWD	Payzone
9/17/2014	1,183	1.14	87.38	1,178	13	12	18	1.43	-1.33	22.83	44.67	MWD	Payzone
9/17/2014	1,213	1.01	68.44	1,208	13	12	18	1.25	-0.43	-63.13	45.22	MWD	Payzone
9/17/2014	1,243	0.83	64.80	1,238	13	12	19	0.63	-0.60	-12.13	45.70	MWD	Payzone
9/17/2014	1,273	0.79	85.58	1,268	13	12	19	0.98	-0.13	69.27	46.12	MWD	Payzone
9/17/2014	1,303	0.70	74.64	1,298	13	12	20	0.56	-0.30	-36.47	46.51	MWD	Payzone
9/17/2014	1,333	0.69	77.11	1,328	13	13	20	0.11	-0.03	8.23	46.87	MWD	Payzone
9/17/2014	1,363	0.40	80.62	1,358	13	13	20	0.97	-0.97	11.70	47.16	MWD	Payzone
9/17/2014	1,393	0.66	86.11	1,388	13	13	21	0.88	0.87	18.30	47.44	MWD	Payzone
9/17/2014	1,423	0.70	73.67	1,418	13	13	21	0.51	0.13	-41.47	47.79	MWD	Payzone
9/17/2014	1,453	0.79	99.12	1,448	13	13	21	1.13	0.30	84.83	48.17	MWD	Payzone
9/17/2014	1,483	0.53	102.02	1,478	13	13	22	0.87	-0.87	9.67	48.52	MWD	Payzone

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Powvitch 15-13-12-3-2WB	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013519420000	NWNE 75FNL 2332FEL SEC24 T3S R2W MERU	UINTA CB - BAR F HORZ	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500358785	Duchesne	Utah	9/21/2014 06:00	10/28/2014 00:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
9/17/2014	1,513	1.05	104.08	1,508	13	13	22	1.74	1.73	6.87	48.93	MWD	Payzone
9/17/2014	1,543	1.23	99.42	1,538	13	12	23	0.67	0.60	-15.53	49.52	MWD	Payzone
9/17/2014	1,573	1.36	97.53	1,568	13	12	23	0.46	0.43	-6.30	50.20	MWD	Payzone
9/17/2014	1,586	1.23	90.99	1,581	13	12	24	1.51	-1.00	-50.31	50.50	MWD	Payzone
9/27/2014	1,707	1.72	96.88	1,702	13	12	27	0.42	0.40	4.87	53.61	MWD	Weatherford
9/27/2014	1,770	1.98	91.26	1,765	13	12	29	0.50	0.41	-8.92	55.64	MWD	Weatherford
9/27/2014	1,864	2.05	96.50	1,859	13	12	32	0.21	0.07	5.57	58.94	MWD	Weatherford
9/27/2014	1,959	2.22	92.93	1,954	13	11	36	0.23	0.18	-3.76	62.48	MWD	Weatherford
9/27/2014	2,053	2.14	98.87	2,048	12	11	39	0.25	-0.09	6.32	66.05	MWD	Weatherford
9/27/2014	2,147	2.22	100.16	2,142	12	11	43	0.10	0.09	1.37	69.62	MWD	Weatherford
9/27/2014	2,242	2.07	96.11	2,237	12	10	46	0.22	-0.16	-4.26	73.18	MWD	Weatherford
9/27/2014	2,336	2.01	96.81	2,331	11	10	49	0.07	-0.06	0.74	76.52	MWD	Weatherford
9/27/2014	2,431	1.94	92.75	2,426	11	9	53	0.16	-0.07	-4.27	79.80	MWD	Weatherford
9/27/2014	2,525	2.03	92.66	2,520	11	9	56	0.10	0.10	-0.10	83.05	MWD	Weatherford
9/27/2014	2,619	1.96	92.81	2,614	11	9	59	0.07	-0.07	0.16	86.32	MWD	Weatherford
9/28/2014	2,714	2.01	87.52	2,709	11	9	63	0.20	0.05	-5.57	89.61	MWD	Weatherford
9/28/2014	2,808	2.06	90.68	2,803	11	9	66	0.13	0.05	3.36	92.95	MWD	Weatherford
9/28/2014	2,903	2.02	92.14	2,897	11	9	69	0.07	-0.04	1.54	96.33	MWD	Weatherford
9/28/2014	2,998	1.79	92.33	2,992	11	9	72	0.24	-0.24	0.20	99.49	MWD	Weatherford
9/28/2014	3,092	1.74	91.46	3,086	11	9	75	0.06	-0.05	-0.93	102.38	MWD	Weatherford
9/28/2014	3,187	1.12	94.91	3,181	11	9	78	0.66	-0.65	3.63	104.75	MWD	Weatherford
9/28/2014	3,281	0.74	105.65	3,275	11	8	79	0.44	-0.40	11.43	106.27	MWD	Weatherford
9/28/2014	3,376	0.62	67.43	3,370	11	8	80	0.48	-0.13	-40.23	107.34	MWD	Weatherford
9/28/2014	3,469	0.39	103.38	3,463	11	9	81	0.41	-0.25	38.66	108.12	MWD	Weatherford
9/28/2014	3,564	0.78	92.55	3,558	11	8	82	0.42	0.41	-11.40	109.08	MWD	Weatherford
9/28/2014	3,658	0.46	134.15	3,652	11	8	83	0.57	-0.34	44.26	110.04	MWD	Weatherford
9/28/2014	3,753	0.68	163.45	3,747	10	7	83	0.38	0.23	30.84	110.96	MWD	Weatherford
9/28/2014	3,847	0.79	165.59	3,841	9	6	84	0.12	0.12	2.28	112.16	MWD	Weatherford
9/28/2014	3,941	1.23	177.92	3,935	8	5	84	0.52	0.47	13.12	113.81	MWD	Weatherford
9/28/2014	4,036	1.49	175.79	4,030	5	2	84	0.28	0.27	-2.24	116.06	MWD	Weatherford
9/28/2014	4,130	1.62	186.02	4,124	3	0	84	0.33	0.14	10.88	118.60	MWD	Weatherford
9/28/2014	4,225	1.96	186.60	4,219	0	-3	84	0.36	0.36	0.61	121.57	MWD	Weatherford
9/28/2014	4,319	1.92	188.86	4,313	-3	-6	83	0.09	-0.04	2.40	124.75	MWD	Weatherford
9/28/2014	4,414	2.17	182.73	4,408	-7	-10	83	0.35	0.26	-6.45	128.14	MWD	Weatherford
9/28/2014	4,508	2.36	186.23	4,502	-10	-13	83	0.25	0.20	3.72	131.85	MWD	Weatherford
9/28/2014	4,602	2.54	190.49	4,596	-14	-17	82	0.27	0.19	4.53	135.87	MWD	Weatherford
9/29/2014	4,697	2.88	186.57	4,691	-19	-22	81	0.41	0.36	-4.13	140.36	MWD	Weatherford
9/28/2014	4,789	3.55	186.54	4,783	-24	-27	81	0.73	0.73	-0.03	145.52	MWD	Weatherford
9/28/2014	4,883	3.89	173.60	4,876	-30	-33	81	0.96	0.36	-13.77	151.58	MWD	Weatherford
9/28/2014	4,978	4.31	148.44	4,971	-36	-39	83	1.93	0.44	-26.48	158.21	MWD	Weatherford
9/30/2014	5,072	4.45	130.11	5,065	-41	-45	88	1.49	0.15	-19.50	165.29	MWD	Weatherford
9/30/2014	5,167	4.29	106.30	5,160	-45	-48	94	1.90	-0.17	-25.06	172.38	MWD	Weatherford
9/30/2014	5,261	4.07	102.68	5,253	-46	-50	100	0.37	-0.23	-3.85	179.23	MWD	Weatherford
9/30/2014	5,355	4.76	95.21	5,347	-47	-51	108	0.95	0.73	-7.95	186.45	MWD	Weatherford
9/30/2014	5,450	5.28	92.29	5,442	-47	-51	116	0.61	0.55	-3.07	194.76	MWD	Weatherford
9/30/2014	5,544	5.65	87.90	5,535	-47	-51	125	0.59	0.39	-4.67	203.70	MWD	Weatherford
10/1/2014	5,639	6.20	84.61	5,630	-46	-51	135	0.68	0.58	-3.46	213.50	MWD	Weatherford
10/1/2014	5,733	5.63	84.55	5,723	-45	-50	144	0.61	-0.61	-0.06	223.19	MWD	Weatherford
10/1/2014	5,828	6.52	89.48	5,818	-44	-49	154	1.09	0.94	5.19	233.24	MWD	Weatherford
10/1/2014	6,017	5.17	88.81	6,006	-43	-49	174	0.72	-0.71	-0.35	252.48	MWD	Weatherford
10/1/2014	6,110	5.15	96.16	6,098	-43	-49	182	0.71	-0.02	7.90	260.83	MWD	Weatherford
10/2/2014	6,204	5.54	95.82	6,192	-43	-50	191	0.42	0.41	-0.36	269.59	MWD	Weatherford
10/2/2014	6,298	6.13	96.47	6,286	-44	-51	200	0.63	0.63	0.69	279.14	MWD	Weatherford

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Powvitch 15-13-12-3-2WB	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013519420000	NWNE 75FNL 2332FEL SEC24 T3S R2W MERU	UINTA CB - BAR F HORZ	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500358785	Duchesne	Utah	9/21/2014 06:00	10/28/2014 00:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
10/2/2014	6,392	6.98	93.71	6,379	-45	-52	211	0.96	0.90	-2.94	289.87	MWD	Weatherford
10/3/2014	6,479	6.56	97.57	6,465	-45	-53	221	0.71	-0.48	4.44	300.12	MWD	Weatherford
10/3/2014	6,572	6.20	99.86	6,558	-47	-55	231	0.47	-0.39	2.46	310.45	MWD	Weatherford
10/3/2014	6,667	5.61	102.59	6,652	-48	-57	241	0.69	-0.62	2.87	320.22	MWD	Weatherford
10/3/2014	6,761	4.88	100.65	6,746	-50	-58	249	0.80	-0.78	-2.06	328.81	MWD	Weatherford
10/3/2014	6,856	5.90	95.83	6,840	-50	-60	258	1.17	1.07	-5.07	337.73	MWD	Weatherford
10/4/2014	6,950	6.80	94.47	6,934	-51	-61	268	0.97	0.96	-1.45	348.13	MWD	Weatherford
10/4/2014	7,045	7.66	77.78	7,028	-50	-60	280	2.38	0.91	-17.57	359.96	MWD	Weatherford
10/4/2014	7,071	8.48	70.14	7,054	-49	-59	284	5.19	3.15	-29.38	363.60	MWD	Weatherford
10/4/2014	7,107	9.36	66.32	7,089	-46	-57	289	2.95	2.44	-10.61	369.18	MWD	Weatherford
10/4/2014	7,138	10.57	62.52	7,120	-44	-54	294	4.44	3.90	-12.26	374.54	MWD	Weatherford
10/4/2014	7,170	11.77	59.48	7,151	-41	-51	299	4.18	3.75	-9.50	380.74	MWD	Weatherford
10/4/2014	7,202	12.93	54.27	7,183	-37	-47	305	5.02	3.63	-16.28	387.57	MWD	Weatherford
10/4/2014	7,233	14.08	51.17	7,213	-32	-43	311	4.38	3.71	-10.00	394.81	MWD	Weatherford
10/4/2014	7,265	15.48	47.46	7,244	-26	-38	317	5.28	4.38	-11.59	402.97	MWD	Weatherford
10/4/2014	7,296	16.89	42.86	7,273	-20	-32	323	6.14	4.55	-14.84	411.60	MWD	Weatherford
10/4/2014	7,327	17.70	38.25	7,303	-13	-25	329	5.13	2.61	-14.87	420.81	MWD	Weatherford
10/5/2014	7,359	18.42	33.93	7,333	-5	-17	335	4.75	2.25	-13.50	430.73	MWD	Weatherford
10/5/2014	7,390	19.32	31.72	7,363	4	-8	340	3.71	2.90	-7.13	440.75	MWD	Weatherford
10/5/2014	7,422	20.08	28.78	7,393	13	1	345	3.90	2.38	-9.19	451.53	MWD	Weatherford
10/5/2014	7,453	20.97	25.84	7,422	23	11	350	4.39	2.87	-9.48	462.40	MWD	Weatherford
10/5/2014	7,485	22.09	23.80	7,452	34	21	355	4.21	3.50	-6.38	474.14	MWD	Weatherford
10/5/2014	7,516	23.46	22.15	7,480	45	32	360	4.88	4.42	-5.32	486.14	MWD	Weatherford
10/5/2014	7,547	25.27	20.81	7,509	57	44	365	6.10	5.84	-4.32	498.93	MWD	Weatherford
10/5/2014	7,579	27.08	20.09	7,537	71	58	370	5.74	5.66	-2.25	513.04	MWD	Weatherford
10/5/2014	7,610	28.82	18.98	7,565	85	71	375	5.86	5.61	-3.58	527.57	MWD	Weatherford
10/5/2014	7,642	29.88	17.38	7,593	100	86	379	4.12	3.31	-5.00	543.26	MWD	Weatherford
10/5/2014	7,673	30.85	16.65	7,619	115	101	384	3.35	3.13	-2.35	558.93	MWD	Weatherford
10/6/2014	7,705	31.43	15.93	7,647	131	117	389	2.15	1.81	-2.25	575.47	MWD	Weatherford
10/6/2014	7,736	32.41	14.83	7,673	147	133	393	3.68	3.16	-3.55	591.86	MWD	Weatherford
10/6/2014	7,768	33.22	14.62	7,700	164	150	397	2.56	2.53	-0.66	609.20	MWD	Weatherford
10/6/2014	7,799	34.57	14.26	7,726	181	166	402	4.40	4.35	-1.16	626.49	MWD	Weatherford
10/6/2014	7,831	36.17	14.11	7,752	199	184	406	5.01	5.00	-0.47	645.02	MWD	Weatherford
10/6/2014	7,854	37.99	14.21	7,770	212	198	410	7.92	7.91	0.43	658.88	MWD	Weatherford
10/6/2014	7,893	39.49	14.62	7,801	236	221	416	3.90	3.85	1.05	683.29	MWD	Weatherford
10/6/2014	7,925	41.70	14.95	7,825	256	242	421	6.94	6.91	1.03	704.11	MWD	Weatherford
10/6/2014	7,962	43.22	15.26	7,852	281	266	428	4.15	4.11	0.84	729.08	MWD	Weatherford
10/11/2014	8,060	47.68	18.11	7,921	348	333	448	5.00	4.55	2.91	798.89	MWD	Weatherford
10/11/2014	8,091	48.00	18.75	7,942	370	354	455	1.85	1.03	2.06	821.87	MWD	Weatherford
10/11/2014	8,122	48.87	18.70	7,962	392	376	462	2.81	2.81	-0.16	845.06	MWD	Weatherford
10/11/2014	8,154	52.55	17.16	7,982	416	400	470	12.09	11.50	-4.81	869.83	MWD	Weatherford
10/11/2014	8,185	55.40	15.66	8,001	441	424	477	9.99	9.19	-4.84	894.89	MWD	Weatherford
10/11/2014	8,217	57.39	14.08	8,018	467	450	484	7.46	6.22	-4.94	921.54	MWD	Weatherford
10/11/2014	8,248	59.89	11.55	8,035	493	475	490	10.66	8.06	-8.16	948.01	MWD	Weatherford
10/11/2014	8,280	62.57	9.26	8,050	520	503	495	10.46	8.38	-7.16	976.05	MWD	Weatherford
10/11/2014	8,311	64.97	7.00	8,064	548	531	499	10.13	7.74	-7.29	1,003.86	MWD	Weatherford

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Powwitch 15-13-12-3-2WB	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013519420000	NWNE 75FNL 2332FEL SEC24 T3S R2W MERU	UINTA CB - BAR F HORZ	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500358785	Duchesne	Utah	9/21/2014 06:00	10/28/2014 00:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
10/11/2014	8,343	67.00	3.47	8,077	577	560	501	11.91	6.34	-11.03	1,033.08	MWD	Weatherford
10/11/2014	8,374	68.14	0.21	8,089	606	588	502	10.39	3.68	-10.52	1,061.73	MWD	Weatherford
10/11/2014	8,406	69.41	359.32	8,100	636	618	502	4.74	3.97	1122.22	1,091.56	MWD	Weatherford
10/11/2014	8,437	71.31	358.90	8,111	665	647	502	6.26	6.13	-1.35	1,120.75	MWD	Weatherford
10/11/2014	8,469	73.57	358.94	8,120	695	678	501	7.06	7.06	0.13	1,151.26	MWD	Weatherford
10/11/2014	8,500	75.04	358.74	8,129	725	708	501	4.78	4.74	-0.65	1,181.10	MWD	Weatherford
10/11/2014	8,532	76.70	358.83	8,136	756	739	500	5.19	5.19	0.28	1,212.13	MWD	Weatherford
10/11/2014	8,563	78.71	358.34	8,143	786	769	499	6.67	6.48	-1.58	1,242.42	MWD	Weatherford
10/11/2014	8,595	80.65	357.58	8,149	818	800	498	6.50	6.06	-2.37	1,273.90	MWD	Weatherford
10/11/2014	8,626	82.39	357.19	8,153	848	831	497	5.75	5.61	-1.26	1,304.56	MWD	Weatherford
10/11/2014	8,657	84.07	357.31	8,157	879	862	495	5.43	5.42	0.39	1,335.34	MWD	Weatherford
10/11/2014	8,689	85.80	356.60	8,160	911	894	493	5.84	5.41	-2.22	1,367.22	MWD	Weatherford
10/11/2014	8,720	86.98	356.02	8,162	941	924	491	4.24	3.81	-1.87	1,398.15	MWD	Weatherford
10/11/2014	8,783	86.85	355.35	8,165	1,004	987	487	1.08	-0.21	-1.06	1,461.06	MWD	Weatherford
10/11/2014	8,873	87.16	354.43	8,170	1,093	1,077	479	1.08	0.34	-1.02	1,550.94	MWD	Weatherford
10/13/2014	8,917	87.53	354.26	8,172	1,137	1,120	474	0.93	0.84	-0.39	1,594.89	MWD	Weatherford
10/13/2014	9,011	87.47	354.60	8,176	1,230	1,214	465	0.37	-0.06	0.36	1,688.80	MWD	Weatherford
10/13/2014	9,106	86.05	354.22	8,181	1,324	1,308	456	1.55	-1.49	-0.40	1,783.65	MWD	Weatherford
10/13/2014	9,200	86.17	356.54	8,188	1,417	1,402	448	2.47	0.13	2.47	1,877.42	MWD	Weatherford
10/13/2014	9,295	87.72	358.97	8,193	1,511	1,497	445	3.03	1.63	2.56	1,972.28	MWD	Weatherford
10/13/2014	9,389	88.58	359.23	8,196	1,605	1,591	443	0.96	0.91	0.28	2,066.23	MWD	Weatherford
10/13/2014	9,484	89.32	356.85	8,198	1,700	1,685	440	2.62	0.78	-2.51	2,161.21	MWD	Weatherford
10/13/2014	9,578	88.83	354.61	8,199	1,793	1,779	433	2.44	-0.52	-2.38	2,255.19	MWD	Weatherford
10/14/2014	9,673	89.08	352.70	8,201	1,887	1,874	423	2.03	0.26	-2.01	2,350.17	MWD	Weatherford
10/14/2014	9,767	89.14	355.18	8,202	1,980	1,967	413	2.64	0.06	2.64	2,444.15	MWD	Weatherford
10/14/2014	9,861	88.52	354.43	8,204	2,074	2,061	404	1.04	-0.66	-0.80	2,538.13	MWD	Weatherford
10/14/2014	9,956	87.60	353.15	8,207	2,168	2,155	394	1.66	-0.97	-1.35	2,633.07	MWD	Weatherford
10/14/2014	10,050	87.36	349.36	8,211	2,260	2,248	380	4.04	-0.26	-4.03	2,726.96	MWD	Weatherford
10/14/2014	10,144	87.47	349.42	8,216	2,351	2,340	362	0.13	0.12	0.06	2,820.87	MWD	Weatherford

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Powwitch 15-13-12-3-2WB	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013519420000	NWNE 75FNL 2332FEL SEC24 T3S R2W MERU	UINTA CB - BAR F HORZ	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500358785	Duchesne	Utah	9/21/2014 06:00	10/28/2014 00:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
10/14/2014	10,239	87.66	353.39	8,220	2,445	2,434	348	4.18	0.20	4.18	2,915.76	MWD	Weatherford
10/14/2014	10,333	87.66	354.22	8,224	2,538	2,527	338	0.88	0.00	0.88	3,009.68	MWD	Weatherford
10/14/2014	10,428	87.72	354.37	8,227	2,632	2,622	329	0.17	0.06	0.16	3,104.61	MWD	Weatherford
10/14/2014	10,522	88.95	357.63	8,230	2,725	2,715	322	3.71	1.31	3.47	3,198.55	MWD	Weatherford
10/14/2014	10,616	89.26	359.73	8,232	2,819	2,809	320	2.26	0.33	2.23	3,292.53	MWD	Weatherford
10/14/2014	10,711	89.38	359.01	8,233	2,914	2,904	319	0.77	0.13	-0.76	3,387.53	MWD	Weatherford
10/14/2014	10,805	88.95	359.37	8,234	3,008	2,998	317	0.60	-0.46	0.38	3,481.52	MWD	Weatherford
10/15/2014	10,900	87.41	359.88	8,237	3,103	3,093	317	1.71	-1.62	0.54	3,576.47	MWD	Weatherford
10/15/2014	10,994	88.83	2.76	8,240	3,197	3,187	319	3.41	1.51	-379.91	3,670.40	MWD	Weatherford
10/15/2014	11,088	88.64	2.09	8,242	3,291	3,281	323	0.74	-0.20	-0.71	3,764.38	MWD	Weatherford
10/15/2014	11,183	88.52	0.46	8,245	3,386	3,376	325	1.72	-0.13	-1.72	3,859.35	MWD	Weatherford
10/15/2014	11,277	87.78	0.96	8,248	3,479	3,470	326	0.95	-0.79	0.53	3,953.30	MWD	Weatherford
10/15/2014	11,371	87.84	359.09	8,251	3,573	3,564	326	1.99	0.06	380.99	4,047.22	MWD	Weatherford
10/15/2014	11,466	88.46	6.93	8,254	3,668	3,659	331	8.27	0.65	-370.69	4,142.10	MWD	Weatherford
10/15/2014	11,561	88.09	5.75	8,257	3,763	3,753	342	1.30	-0.39	-1.24	4,237.05	MWD	Weatherford
10/16/2014	11,655	89.01	5.11	8,260	3,857	3,847	351	1.19	0.98	-0.68	4,331.02	MWD	Weatherford
10/16/2014	11,749	87.41	2.62	8,263	3,951	3,940	357	3.15	-1.70	-2.65	4,424.97	MWD	Weatherford
10/16/2014	11,844	86.98	4.67	8,267	4,045	4,035	363	2.20	-0.45	2.16	4,519.85	MWD	Weatherford
10/16/2014	11,938	86.85	1.79	8,272	4,139	4,129	368	3.06	-0.14	-3.06	4,613.70	MWD	Weatherford
10/16/2014	12,033	87.16	2.49	8,277	4,234	4,224	372	0.80	0.33	0.74	4,708.57	MWD	Weatherford
10/16/2014	12,127	86.73	0.68	8,282	4,328	4,317	374	1.98	-0.46	-1.93	4,802.43	MWD	Weatherford
10/16/2014	12,221	88.89	0.57	8,286	4,422	4,411	375	2.30	2.30	-0.12	4,896.36	MWD	Weatherford
10/16/2014	12,316	89.38	3.55	8,287	4,517	4,506	379	3.18	0.52	3.14	4,991.34	MWD	Weatherford
10/16/2014	12,410	87.66	357.99	8,290	4,611	4,600	380	6.19	-1.83	377.06	5,085.27	MWD	Weatherford
10/16/2014	12,505	87.60	355.63	8,294	4,705	4,695	375	2.48	-0.06	-2.48	5,180.18	MWD	Weatherford
10/16/2014	12,599	88.21	355.15	8,297	4,799	4,789	367	0.83	0.65	-0.51	5,274.11	MWD	Weatherford
10/16/2014	12,693	87.47	354.23	8,301	4,892	4,882	359	1.26	-0.79	-0.98	5,368.05	MWD	Weatherford
10/16/2014	12,788	86.73	356.40	8,305	4,986	4,977	351	2.41	-0.78	2.28	5,462.92	MWD	Weatherford
10/17/2014	12,882	85.31	356.27	8,312	5,079	5,070	345	1.52	-1.51	-0.14	5,556.69	MWD	Weatherford

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Powvitch 15-13-12-3-2WB	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013519420000	NWNE 75FNL 2332FEL SEC24 T3S R2W MERU	UINTA CB - BAR F HORZ	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
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Survey Data

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10/17/2014	12,977	86.67	356.97	8,319	5,174	5,165	339	1.61	1.43	0.74	5,651.45	MWD	Weatherford
10/17/2014	13,071	87.35	357.55	8,323	5,267	5,259	335	0.95	0.72	0.62	5,745.32	MWD	Weatherford
10/17/2014	13,166	87.59	357.74	8,328	5,362	5,353	331	0.32	0.25	0.20	5,840.23	MWD	Weatherford
10/17/2014	13,260	88.15	357.50	8,331	5,455	5,447	327	0.65	0.60	-0.26	5,934.17	MWD	Weatherford
10/17/2014	13,355	88.52	356.83	8,334	5,550	5,542	322	0.81	0.39	-0.71	6,029.12	MWD	Weatherford
10/17/2014	13,544	88.24	2.58	8,339	5,739	5,731	321	3.04	-0.15	-187.43	6,217.97	MWD	Weatherford
10/17/2014	13,638	87.90	2.37	8,342	5,833	5,825	325	0.43	-0.36	-0.22	6,311.92	MWD	Weatherford
10/18/2014	13,732	87.84	2.50	8,346	5,927	5,919	329	0.15	-0.06	0.14	6,405.85	MWD	Weatherford
10/18/2014	13,826	87.47	1.38	8,350	6,021	6,013	333	1.25	-0.39	-1.19	6,499.77	MWD	Weatherford
10/18/2014	13,921	88.52	0.65	8,353	6,115	6,107	334	1.35	1.11	-0.77	6,594.71	MWD	Weatherford
10/18/2014	14,015	88.58	0.59	8,355	6,209	6,201	335	0.09	0.06	-0.06	6,688.68	MWD	Weatherford
10/18/2014	14,109	87.53	1.17	8,359	6,303	6,295	337	1.28	-1.12	0.62	6,782.62	MWD	Weatherford
10/18/2014	14,204	87.53	1.65	8,363	6,398	6,390	339	0.50	0.00	0.51	6,877.54	MWD	Weatherford
10/18/2014	14,298	86.55	0.59	8,368	6,492	6,484	341	1.53	-1.04	-1.13	6,971.41	MWD	Weatherford
10/18/2014	14,393	87.23	0.43	8,373	6,587	6,579	342	0.74	0.72	-0.17	7,066.27	MWD	Weatherford
10/18/2014	14,487	87.66	0.29	8,377	6,681	6,673	342	0.48	0.46	-0.15	7,160.17	MWD	Weatherford
10/18/2014	14,582	88.06	1.17	8,381	6,776	6,768	344	1.02	0.42	0.93	7,255.11	MWD	Weatherford
10/18/2014	14,676	87.96	1.17	8,384	6,870	6,862	345	0.11	-0.11	0.00	7,349.05	MWD	Weatherford
10/18/2014	14,771	87.90	0.95	8,387	6,965	6,957	347	0.24	-0.06	-0.23	7,443.99	MWD	Weatherford
10/18/2014	14,866	87.90	0.15	8,391	7,059	7,052	348	0.84	0.00	-0.84	7,538.92	MWD	Weatherford
10/18/2014	14,960	87.96	359.87	8,394	7,153	7,145	348	0.30	0.06	382.68	7,632.86	MWD	Weatherford
10/18/2014	15,054	88.09	0.23	8,397	7,247	7,239	348	0.41	0.14	-382.60	7,726.81	MWD	Weatherford
10/19/2014	15,149	87.90	0.59	8,401	7,342	7,334	349	0.43	-0.20	0.38	7,821.75	MWD	Weatherford
10/19/2014	15,243	87.84	0.38	8,404	7,436	7,428	350	0.23	-0.06	-0.22	7,915.68	MWD	Weatherford
10/19/2014	15,338	87.90	0.44	8,408	7,531	7,523	350	0.09	0.06	0.06	8,010.62	MWD	Weatherford
10/19/2014	15,432	87.96	358.88	8,411	7,625	7,617	350	1.66	0.06	381.32	8,104.55	MWD	Weatherford
10/19/2014	15,527	88.24	358.17	8,414	7,720	7,712	347	0.80	0.29	-0.75	8,199.50	MWD	Weatherford
10/19/2014	15,622	88.64	358.79	8,417	7,814	7,807	345	0.78	0.42	0.65	8,294.46	MWD	Weatherford
10/19/2014	15,716	89.01	0.52	8,419	7,908	7,901	344	1.88	0.39	-381.14	8,388.44	MWD	Weatherford

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Powvitch 15-13-12-3-2WB	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013519420000	NWNE 75FNL 2332FEL SEC24 T3S R2W MERU	UINTA CB - BAR F HORZ	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500358785	Duchesne	Utah	9/21/2014 06:00	10/28/2014 00:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
10/19/2014	15,811	87.59	359.48	8,422	8,003	7,996	344	1.85	-1.49	377.85	8,483.39	MWD	Weatherford
10/20/2014	15,905	86.23	359.21	8,427	8,097	8,090	343	1.47	-1.45	-0.29	8,577.26	MWD	Weatherford
10/20/2014	16,000	85.31	0.93	8,434	8,192	8,185	343	2.05	-0.97	-377.14	8,671.99	MWD	Weatherford
10/20/2014	16,094	86.48	4.10	8,440	8,285	8,278	347	3.59	1.24	3.37	8,765.74	MWD	Weatherford
10/20/2014	16,188	85.99	6.15	8,447	8,379	8,372	356	2.24	-0.52	2.18	8,859.53	MWD	Weatherford
10/20/2014	16,283	85.68	4.26	8,453	8,474	8,466	364	2.01	-0.33	-1.99	8,954.27	MWD	Weatherford
10/20/2014	16,377	85.38	1.37	8,461	8,567	8,560	369	3.08	-0.32	-3.07	9,047.98	MWD	Weatherford
10/20/2014	16,471	85.62	1.09	8,468	8,661	8,653	371	0.39	0.26	-0.30	9,141.69	MWD	Weatherford
10/20/2014	16,566	85.43	1.61	8,476	8,756	8,748	373	0.58	-0.20	0.55	9,236.40	MWD	Weatherford
10/20/2014	16,660	85.55	359.36	8,483	8,849	8,842	374	2.39	0.13	380.59	9,330.10	MWD	Weatherford
10/21/2014	16,755	85.24	359.40	8,491	8,944	8,936	373	0.33	-0.33	0.04	9,424.79	MWD	Weatherford
10/21/2014	16,849	85.24	359.76	8,498	9,037	9,030	372	0.38	0.00	0.38	9,518.47	MWD	Weatherford
10/21/2014	16,943	87.96	1.23	8,504	9,131	9,124	373	3.29	2.89	-381.41	9,612.29	MWD	Weatherford
10/21/2014	17,037	84.13	358.82	8,510	9,225	9,218	373	4.81	-4.07	380.41	9,706.04	MWD	Weatherford
10/21/2014	17,132	84.26	0.81	8,520	9,319	9,312	373	2.09	0.14	-376.85	9,800.55	MWD	Weatherford
10/21/2014	17,226	85.99	3.32	8,528	9,413	9,406	376	3.23	1.84	2.67	9,894.20	MWD	Weatherford
10/21/2014	17,321	86.30	1.13	8,534	9,508	9,500	380	2.32	0.33	-2.31	9,988.98	MWD	Weatherford
10/21/2014	17,415	87.10	0.23	8,540	9,602	9,594	381	1.28	0.85	-0.96	10,082.82	MWD	Weatherford
10/21/2014	17,509	86.73	360.00	8,545	9,695	9,688	381	0.46	-0.39	382.73	10,176.69	MWD	Weatherford
10/21/2014	17,604	86.11	359.18	8,551	9,790	9,783	381	1.08	-0.65	-0.86	10,271.50	MWD	Weatherford
10/22/2014	17,698	85.55	356.02	8,558	9,884	9,877	377	3.41	-0.60	-3.36	10,365.24	MWD	Weatherford
10/22/2014	17,793	85.56	353.51	8,565	9,978	9,971	368	2.63	0.01	-2.64	10,459.95	MWD	Weatherford
10/22/2014	17,888	85.33	353.76	8,573	10,071	10,065	357	0.36	-0.24	0.26	10,554.65	MWD	Weatherford

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Job Category	Job Start Date	Job End Date

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
11/4/2014	11/5/2014	We are attempting to open RSI toe sleeve. Pinned to7565psi walked pressure to 9000psi on several attempts to open RSI to no avail. Currently holding 9500psi as per NFX engineer .

Start Time	End Time	Comment
10:00	12:30	10:00 Spot in Halliburton and 11:30 rig up Halliburton
12:30	13:30	Pressure test pumps and lines to 6000 PSI 12:47Pressure test pump and line Start pumping - pressure up to 720 psi Shut down, reboot computer on Acid pump 12:59 Open HCR Valve and pressure dropped to 0 psi 13:00 Start pumping in with 2 bpm pressure began climbing immediately reduced rate to 1.5 bpm at 4500 psi then reduced rate to 1 bpm at 5500 psi 13:05 Pressured up to 6040 psi and stopped pumping Found a leak on the pump in line and shut in line at 2" manifold and monitor pressure for 30 minutes 13:35 Pressure bleed to 5967 so the total pressure lost was 173 psi 13:37 Bleed pressure of HALLIBURTON line and fix leak on iron then pressure test line to 6000 and open to well. 13:39 Bleed pressure off well back to acid truck 13:44 Close in bleed off
13:30	17:00	Pump in to open RSI / discuss plan to pump in with frac pump at 7.5 bpm 13:45 Start pumping at 7.5 with kicks set at 9000 psi 13:48 Pumps kicked out at 8770 with 10.56 bbls pumped pressure holding at 8750 psi 13:51 Bleed pressure back to truck to 5100 psi 13:54 Start boost and begin pumping (pump in again at same pump settings but rate was not reading) pressure up to 8970 pumps kicked out. Help pressure for 5 minutes 14:00 Bleed pressure to zero 14:06 Close in bleed off start boost and begin pumping at 4.7 bpm pump in 9.5 bbls to pressure up to 9040 psi 14:10 Pressure holding at 9000 psi 14:30 Close in frac iron and open up to B&C test truck 15:38 Pump in at 1/8 bpm bring pressure up to 9500 psi! 15:06 Bumped pressure up to 9800 psi at 1/8 bpm 15:20 Bleed down to 9000 psi washed bleeder valve on test truck, shut in well and bleed off then change bleeder valve and open well up 15:30 Pressure up to 10000 psi 15:58 Bleed pressure off of well 16:04 Start pumping in at 7 bpm with frac pump pressure up to 9130 and stop pumping 16:07 Close in Halliburton iron 16:08 Bump in with B&C test truck at 1/8 bpm from 9130 to 9900 psi 16:12 Hold 9900 psi 16:35 Bumped pressure up to 10,100 Psi with B&C test truck17:05 bleed pressure off to 0 hold Pressure while decisions are made weather or not to shut down for the night Trouble Shoot Frack Pump (Kicking out before set Kickout pressure)

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
17:00	18:30	Pickle up pumps and lines with Brine and Rig down Frac pump 17:10 Rig down DFIT gauges /Trouble shoot frac pump / Drain up and rig down frac pump Prime up acid pump with brine water to pickle up pump and lines 18:03 Begin pumping with Acid pump at 3.8 bpm set kicks at 9000 psi 18:05 Drop rate to 2.5 bpm 18:06 Pressured up to 9100 stop pumps 18:07 Begin pumping at 1/8 bpm with B&C quick test pump to 9500 psi with brine to pickle well head and valves. Shut in HCR and bottom frac valve for double barrier then shut inside wing valves and break off HALLIBURTON iron and B&C Quick Test truck
18:30	00:00	Shut down for night / 9500 PSi on well.

Report Start Date	Report End Date	24hr Activity Summary
11/5/2014	11/6/2014	.

Start Time	End Time	Comment
00:00	08:00	Wait on Daylight
08:00	09:00	B&C Quick Test arrived at 08:00 and held PJSM with Location supervisors and then checked pressure on the well (9400 PSI) Halliburton called to let us know that they were Delayed by road-side UDOT inspection. (Frac truck Passed DOT Inspection perfectly)
09:00	12:00	Rig up Halliburton and Pressure test pump and lines to 9000 then open well to halliburton and Bleed pressure off of well. Communicate with Leadership team to make a plan forward.
12:00	14:00	Weltech and JW Wireline arrived on location at 12:00 Hold PJSM with B&C Quick test and JW wireline Nippled down 7 1/16 flange on top frac head and remove "Night cap" then Nipple up Wireline lubricator adapter (Wireline crane Broke down and it took JW approxamatly 15 minutes to get a new crane on location so no Downtime was recorded) Rig up crane and begin rigging up Wireline.
14:00	18:00	Rig up Wire line and lubricator Rig up 5 ½" 10K lubricator, test 10k with B& C quick test, Pick up Tractor tool with perf gun string Tractor string: 22.38 Gun String:21.96 Total length:44.34 Total weight: 755.5 lbs
18:00	00:00	RIH with WL tractor and perf guns. Correlate to csg tally at 7719'. RIH and set down at 8575'. Dn wt 870, up wt 1500, static 1340. Pressure csg to 3000 psi. Tractor guns IH at 38 fpm and 940 LTEN. Unable to locate marker jt at 10,495'. Correlate to csg tally at 12,753' and 15,261'.

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
11/6/2014	11/7/2014	Tractor perf gun IH.

Start Time	End Time	Comment
00:00	01:00	Tractor perf gun IH. Tag at 17,422'. HES holding 3890 psi on csg. POH and perforate 9 holes at 17,375' to 17378'.
01:00	04:30	POH running CCL to surf. Correlate to csg tally. All shots fired. All tools recovered. Install night cap on WL BOP. SICP 2800 psi.
04:30	06:00	Install data traps. Equalize pressure on frac tree and open middle master valve. SICP 2,697 psi. Pump DFIT at 7 bpm. With 12 bbl pumped got a break at 7,648 psi. With 17 bbl pumped got a second break at 8,220 psi. With 23 bbl pumped got a break at 8,605 psi. Pumped 35 bbl with final pressure of 7,838 psi. Last 14 bbl pumped were brine water. ISIP 7,324 psi
06:00	08:00	Continue DFIT Final Shut in Pressure after 1 Hour is 3084 PSI. / Rig down Wireline, install Night cap and nipple up, Rig down and move out Halliburton, Weltech and JW wireline.
08:00	17:00	Continue DFIT 09:00 Pressure Gauge 7 = 2930.96 / Pressure gauge 8 = 2930.96 11:00 Pressure Gauge 7 = 2859.12 / Pressure gauge 8 = 2859.12 13:00 Pressure Gauge 7 = 2808.24 / Pressure gauge 8 = 2808.09 15:00 Pressure Gauge 7 = 2757.44 / Pressure gauge 8 = 2757.05 17:00 Pressure Gauge 7 = 2733.92 / Pressure gauge 8 = 2733.64 Select rental delivered Air heater Cardwell Petroleum Delivered fuel Ute Tribal UTERO commission Came to inspect location Weatherford Rigged up Tarp around well head Started Air heater at 16:30
17:00	00:00	19:00 Pressure Gauge #7 - 2700.79 / Pressure Gauge #8 - 2700.38 21:00 Pressure Gauge #7 - 2672.5 / Pressure Gauge #8 - 2672.14 23:00 Pressure Gauge #7 – 2647.98 / Pressure Gauge #8 – 2647.62

Report Start Date	Report End Date	24hr Activity Summary
11/7/2014	11/8/2014	DFIT

Start Time	End Time	Comment
00:00	00:00	01:00 Pressure Gauge #7 – 2627.11 / Pressure Gauge #8 – 2626.8 03:00 Pressure Gauge #7 – 2608.14 / Pressure Gauge #8 – 2607.73 05:00 Pressure Gauge #7 – 2590.69 / Pressure Gauge #8 – 2590.37 07:00 Pressure Gauge #7 – 2574.46 / Pressure Gauge #8 – 2574.19 15:00 Pressure Gauge #7 - 2522.72 / Pressure Gauge #8 - 2522.32 23:00 Pressure Gauge #7 - 2485.58 / Pressure Gauge #8 - 2485.17

Report Start Date	Report End Date	24hr Activity Summary
11/8/2014	11/9/2014	DFIT

Start Time	End Time	Comment
00:00	00:00	07:00 Current Pressure Gauge 7= 2485.58 / Gauge 8= 2485.17. 15:00 pressure readings Gauge 7= 2429.71 / Gauge 8= 2429.27. 23:00 Gauge 7- 2409.28 / Gauge 8- 2408.88.

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
11/9/2014	11/10/2014	DFIT

Start Time	End Time	Comment
00:00	00:00	7:00 Current Pressure Gauge 7- 2390.51 / Gauge 8- 2390.30. 23:00 Gauge 7- 2362.11 / Gauge 8- 2361.69.

Report Start Date	Report End Date	24hr Activity Summary
11/10/2014	11/11/2014	DFIT

Start Time	End Time	Comment
00:00	00:00	Monitor Pressure and record every 8 Hours / Current Pressure at 07:00 Gauge 7- 2349.94 / Gauge 8- 2349.66 Monitor Pressure and record every 8 Hours / Current Pressure at 15:00 Gauge 7- 2339.87 / Gauge 8- 2338.64 23:00 DFIt pressure-- Gauge 7- 2328.68 / Gauge 8- 2328.33.

Report Start Date	Report End Date	24hr Activity Summary
11/11/2014	11/12/2014	DFIT

Start Time	End Time	Comment
00:00	00:00	Monitor Pressure and record every 8 Hours / Current pressure at 07:00 Gauge 7- 2320.27 / Gauge 8- 2320.33 / Current Pressure at 15:00 Gauge 7- 2312.29 , Gauge 8- 2311.96 23:00--Gauge 7-2304.10/Gauge 8-2303.96

Report Start Date	Report End Date	24hr Activity Summary
11/12/2014	11/13/2014	DFIT

Start Time	End Time	Comment
00:00	00:00	Monitor Pressure and record every 8 Hours / Current pressure at 06:00 Gauge 7-2297.31/Gauge 8-2297.22 / Current Pressure at 15:00 Gauge 7- 2290.89, Gauge 8- 2290.66 23:00 Gauge 7-2280.20/Gauge 8-2280.31

Report Start Date	Report End Date	24hr Activity Summary
11/13/2014	11/14/2014	DFIT

Start Time	End Time	Comment
00:00	00:00	Monitor Pressure and record every 8 Hours / Current pressure at 07:00 Gauge 7- 2278.30, Gauge 8- 2278.44 / Current Pressure at 15:00 Gauge 7- 2273.38, Gauge 8- 2273.18 23:00 Gauge 7-2268.17/gauge 8-2268.15

Report Start Date	Report End Date	24hr Activity Summary
11/14/2014	11/15/2014	DFIT

Start Time	End Time	Comment
00:00	00:00	7 AM - Monitor Pressure and record every 8 Hours / Current Pressure Gauge 7- 2262.77, Gauge 8- 2262.52 3 PM - Monitor Pressure and record every 8 Hours / Current Pressure Gauge 7- 2258.88, Gauge 8- 2258.51\ 23:00 Gauge 7-2253.62/gauge 8-2253.25

Report Start Date	Report End Date	24hr Activity Summary
11/15/2014	11/16/2014	DFIT

Start Time	End Time	Comment
00:00	00:00	7 AM - Monitor Pressure and record every 8 Hours / Current Pressure Gauge 7- 2249.33, Gauge 8- 2249.25 3 PM - Monitor Pressure and record every 8 Hours / Current Pressure Gauge 7- 2244.81, Gauge 8- 2244.50 23:00 -- Gauge 7-2241.81/Gauge 8-2241.72

Report Start Date	Report End Date	24hr Activity Summary
11/16/2014	11/17/2014	DFIT

Start Time	End Time	Comment
00:00	00:00	7 AM - Monitor Pressure and record every 8 Hours / Current Pressure Gauge 7- 2237.71, Gauge 8- 2238.13 3 PM - Monitor Pressure and record every 8 Hours / Current Pressure Gauge 7- 2235.33, Gauge 8- 2234.84 23:00--Gauge 7-2231.12/Gauge 8-2230.82

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
11/17/2014	11/18/2014	DFIT

Start Time	End Time	Comment
00:00	09:00	7 AM - Monitor Pressure and record every 8 Hours / Current Pressure Gauge 7- 2227.59, Gauge 8- 2227.40
09:00	18:00	Halliburton & crane showed up on location getting everything spotted in & ready to wireline. RD DFIT gauges & night cap. RU Halliburton wireline & pressure test lube to 9,000 psi RIH W/ gauge ring. RIH pump down to 17,700'. POOH W/gauge ring.
18:00	00:00	LD gauge ring & PU CAST-M logging tools & pressure test lubricator per Newfield standards. Refill water tanks. Pump down CAST-M tool at 5 bpm, LTEN 60, 10 fpm, 5050 psi to 1500'. Tool started falling at that depth.

Report Start Date	Report End Date	24hr Activity Summary
11/18/2014	11/19/2014	RU WL truck. Run Gauge ring.

Start Time	End Time	Comment
00:00	02:00	RIH with CAST-M logging tool to 8200'. Tool not working when rotating the head. POH to reset the telemetry on the head.
02:00	07:00	POH. LD and repair logging tool. PU tool and lubricator. Check tool before starting IH, found CBL not working, work on CBL.
07:00	11:00	Halliburton had picked up tools & tested lube & RIH a couple hundred foot & tested tool it didn't respond so came back out repair logging tool. PU tool and lubricator. Check tool before starting IH.
11:00	15:00	Checking connection on drum to make sure that it is hooked up correctly. Waiting on a new communication box for wireline truck. Got all new stuff put on Halliburton truck & still not working 100% of the time. POOH W/wireline & tools. Re-head wireline & check all things out on surface.
15:00	20:00	Wait on another WL truck from Rock Springs.
20:00	00:00	Change out HES WL trucks. PU and check logging tools. Test lubricator per Newfield's guidelines. GIH to 30', PU to work logging tool in as centralizers were dragging . Started losing hole as we worked the tool up and down, working down to only 5'.

Report Start Date	Report End Date	24hr Activity Summary
11/19/2014	11/20/2014	CAST-M log

Start Time	End Time	Comment
00:00	02:00	LD tool logging tool. Found problem with lubricator pack off rubbers and repaired. PU tool and test lubricator to Newfield's standards.
02:00	04:00	RIH with CAST-M log to 7900' then pump down tools. Pump pressure 6320 psi at 11.8 bpm. Line speed 210 fpm with 750 LTEN. Max pressure 7100 psi. Pumped 590 bbl. Max depth 17,320'.
04:00	12:00	Run CAST-M log from 17,320' to 1,800'. POOH LD tools & RD Halliburton wireline. Had Halliburtons pump truck brine wellhead. RD Halliburton pump trucks & MO.
12:00	00:00	Clean up location & finish poly transfer line from the Earl pad.

Report Start Date	Report End Date	24hr Activity Summary
11/20/2014	11/21/2014	CAST-M log

Start Time	End Time	Comment
00:00	00:00	SDFN - Rock Water is on location finishing up poly tranfer line testing & dry pigging.

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
11/21/2014	11/22/2014	Finish poly transfer line from the Earl pad.

Start Time	End Time	Comment
00:00	06:00	SDFN
06:00	18:00	Well is shut in . Rockwater is pumping frac water back to Earl pad to avoid freezing in tanks . Haul approx: 1800 bbls
18:00	00:00	SDFN

Report Start Date	Report End Date	24hr Activity Summary
11/22/2014	11/23/2014	Finish poly transfer line from the Earl pad.

Start Time	End Time	Comment
00:00	00:00	Shut Down, Wait on Frac

Report Start Date	Report End Date	24hr Activity Summary
11/23/2014	11/24/2014	Wait on Frac

Start Time	End Time	Comment
00:00	00:00	Shut Down, Wait on Frac

Report Start Date	Report End Date	24hr Activity Summary
11/24/2014	11/25/2014	Wait on Frac

Start Time	End Time	Comment
00:00	00:00	Shut down, Wait on Frac

Report Start Date	Report End Date	24hr Activity Summary
11/25/2014	11/26/2014	Wait on Frac

Start Time	End Time	Comment
00:00	06:00	SDFN
06:00	10:00	Rig up Pro's Flowback Lines & Manifold
10:00	17:00	Pressure Test Flowback Lines & Manifold to Newfield Guidelines, Construction widen road at entrance to location, Spot in & set 500 bbl. Acid tank, Move in Halliburton Mountain Movers, Nipple Down Blanking Flange, Nipple Up 7 1/16"X 10K JW Wireline Flange, Pressure Test Wireline Flange to Newfields Guidelines
17:00	00:00	Wait on Frac to start, SDFN

Report Start Date	Report End Date	24hr Activity Summary
11/26/2014	11/27/2014	Wait on Frac

Start Time	End Time	Comment
00:00	06:00	SDFN
06:00	11:00	Goff Trucking loading frac sand into Halliburton Mountain Movers
11:00	00:00	Wait on Frac to start, SDFN

Report Start Date	Report End Date	24hr Activity Summary
11/27/2014	11/28/2014	Wait on Frac

Start Time	End Time	Comment
00:00	00:00	Waiting for frac

Report Start Date	Report End Date	24hr Activity Summary
11/28/2014	11/29/2014	Wait on Frac

Start Time	End Time	Comment
00:00	06:00	SDFN

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
06:00	18:00	Move in Halliburton Frac Equip. RU and test frac lines. Move in & Rig up JW Wireline, Heating Water on Earl pad for Frac.

Report Start Date	Report End Date	24hr Activity Summary
11/29/2014	11/30/2014	MIRU Halliburton equipment & transfer water for frac.

Start Time	End Time	Comment
00:00	07:00	Transfering water for Frac.
07:00	16:00	Hold JSA, Bucket Test, Halliburton working on Blender Computer, Pressure test frac lines to 10,000psi, Pump laterial volume, Start Frac Stage #1. Global Kick Outs set at 9500 psi. Pressure tested to 10400 psi. Job pumped Produced Water with 1.0% KCl .2. Calculated 8 holes open, 1813 psi perf friction, 997 psi NWB as per FracPro. Developed a leak after coming back on from FET. Shut down to fix. Made some minor design changes as per NF engineering. Started back into job and established XL and pumped 100 Mesh Displaced 100 Mesh with linear gel. Pressure started coming up with XL fluid on formation. Rate dropped to 14 bpm @ 9,100 psi. Decision made to swap back to FR. and flush the well. Placed approx. 6,900 lbs. of 100 Mesh in formation. Good job by crew with all the changes, move on to stage 2. Had multiple problems at the start of the job with data communication between IFS and Fracpro. WG-36-2.3% (15.5), BC-200-8.6% (2), FR-76-9.5% (2.3),BA-20-53.3% (5.7), CL-31-44.8% (1.5) BE-9-24.9% (5), MO-67-73.7% (4.2), MC S-2510T-6.1% (2.3) Vicon NF-4.4% (4.3), Losurf 300D-6.1% (4.6) Cat 3/4-168.4% (10.7),
16:00	18:30	P&P stage 2. RIH with guns and Plug to KOP. pumped down guns at 13.2 bpm @ 6785 Psi, @208 fpm, 724 LT, pumped guns to17,345', Pulled up and got line tension and set plug @ 17,316'. Line tension prior to setting plug 2009, line tension after plug set 1748, plug set time 1 min. perf'ed at (17,275'- 17,278') (17,210' - 17,213'. POOH with tools, max pressure for pump down:7768 . Max rate for pump down- 13.2 bpm. Total BBls pumped-547.71. POOH w/tools all shots fired. Drop ball & turn over to Frac.
18:30	21:00	Start Frac Stage #2. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10400 psi. Job pumped Produced Water with 1.0% KCl . 2. Calculated 15 holes open, 1095 psi perf friction, 262 psi NWB as per FracPro. 3. Ran a little heavy on 100 Mesh sand and 30/50 prop. 4. Stage went well. All proppant placed. WG-36-2.9% (63.6), BC-200-4.3% (6.1), MO-67-4.1% (1.5), MC S-2510T-2.3% (1.7) Vicon NF-2.9% (6.7), Losurf 300D-5% (7.3) FE-2A-5.3% (1.7),
21:00	00:00	P&P stage 3. RIH with guns and Plug to KOP. Pumped down guns at 13.2 bpm @ 4,518 Psi, @220 fpm, 860 LT, pumped guns to17,140', Pulled up and got line tension and set plug @ 17,110'. LT prior to setting plug 2,122, LT after plug set 1,772, plug set time 50 sec. perforated at (17,100'- 17,103') (17,050' - 17,053')(17,000-17,003). Max pressure for pump down was 4,518 psi. Max rate for pump down- 13.2 bpm. Total Bbls pumped – 522.2. POOH w/tools all shots fired. Drop ball & turn over to Frac.

Report Start Date	Report End Date	24hr Activity Summary
11/30/2014	12/1/2014	Pressure test lines & start frac. Frac stage 1 & 2. P&P stages 1, 2 & 3.

Start Time	End Time	Comment
00:00	02:00	Start Frac on Stage #3. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 1.0% KCl . 2. Calculated 17 holes open, 778 psi perf friction, 663 psi NWB as per FracPro. 3. T-Belt sanded off during 3.0# sand stage. Sand fell off completely. 10,000 gallons after losing sand, operators were able to clean up and get going again. Redesigned and worked back up to 3.5# to resume stage. 4. Started losing tub on flush. Had to drop 4 bpm down to 56 bpm. 5. Good effort in recovering by crew. WG-36-4.9% (166.2), BC-200-2.8% (6.1), FR-76-39.7% (12.8),BA-20-9.6% (5.2), CL-31-4.5% (1.5) MO-67-2.5% (1.5), Losurf 300D-4.6% (9.1)FE-2A-22.7% (9.4), Cat 3/4-9.3% (2.7), BE-9-3.4% (1)

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
02:00	04:30	P&P stage 4. RIH with guns and Plug to KOP. Pumped down guns at 13.1 bpm @ 4,611 Psi, @240 fpm, 850 LT, pumped guns to16,990', Pulled up and got line tension and set plug @ 16,945'. LT prior to setting plug 1,886, LT after plug set 1,665, plug set time 53 sec. perforated at (16,950'- 16,953') (16,900' - 16,903')(16,823-16,826). Max pressure for pump down was 4,611 psi. Max rate for pump down- 13.1 bpm. Total Bbls pumped – 525. POOH w/tools all shots fired. Drop ball & turn over to Frac.
04:30	06:30	Start Frac stage #4. 1. Global Kick Outs set at 9400 psi. Pressure tested to 9400 psi. Job pumped Produced Water with 1.0% KCl . 2. Calculated 14 holes open, 1125 psi perf friction, 536 psi NWB as per FracPro.3. 30/50 Ran long. Operator overestimated how much was in hopper and T-Belt at end of stage. Ran approx. 10,000 lbs heavy. ball Seat Stage Pressures and Rate: 4575 psi @ 14.7 bpm , 4575 psi Pressure before Seating , 4575 psi Pressure after Seating.WG-36-4.7% (122.7), BC-200-3.5% (7.3), BA-20-15.6% (6.5), MO-67-6.1% (6.4), Vicon NF-5% (13.4), FE-2A-16% (6.3), BE-9-17% (8.2)
06:30	10:00	JW wireline Jumped Sheave kinked wireline and will have to replace Sheave and cut 400' of wireline and re-head. before RIH w/ stage #5 P&P.
10:00	12:30	Plug and Perf: Stage #5 RIH with guns and Plug to KOP. pumped down guns at 13.3 bpm @ 4703 Psi, @250 fpm, 880 LT, pumped guns to 16,800, Pulled up and got line tension and set plug. Line tension prior to setting plug 1869, line tension after plug set 1630, plug set time 1min30secs. POH and perf'ed at (16,725' - 16,728') (16,660' - 16,663') (16,600' - 16,603'). POOH with tools, max pressure for pump down: 4703 Max rate for pump down- 13.3bpm. Total BBls pumped-415.8. POOH W/Wireline all shots fired, Turn well over to Frac
12:30	15:30	Start Frac stage #5 Global Kick Outs set at 9730 psi. Pressure tested to 10490 psi. Job pumped Produced Water.2. Calculated 21 holes open, 1085 psi perf friction, 600 psi NWB as per FracPro.3. Able to get to 60 bpm with no problems.4. Good job execution by the crew, all proppant placed.Ball Seat Stage Pressures and Rate: 5252 psi @ 14.7 bpm , 4773 psi Pressure before Seating , 5247 psi Pressure after Seating WG-36-13.8% (323.2), BC-200-2.2% (3.4), CL-31-12.3% (2.8) MO-67-2.9% (2.2), MC S-2510T-4.5% (3.9) Vicon NF -11.4% (32.3), Losurf 300D-5% (8.9) Cat 3/4-22.4% (6.6), BE-9-7.9% (4.2)
15:30	17:30	Plug and Perf: Stage #6. RIH with guns and Plug to KOP. pumped down guns at 13.1 bpm @ 4418 Psi, @245 fpm, 870 LT, pumped guns to 16,572', Pulled up and got line tension and set plug. Line tension prior to setting plug 1907, line tension after plug set 1705, plug set time 1min40secs. POH and perf'ed at (16,505'-16508') (16,421'-16,424'). POOH with tools, max pressure for pump down: 4492 Max rate for pump down- 13.2 bpm. Total BBls pumped-411. POOH W/Wireline all shots fired.
17:30	18:30	Weatherford Grease all valves on Frac Stack
18:30	20:30	Drop ball & Start Frac stage #6, Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. Calculated 17 holes open, 1700 psi perf friction, 248 psi NWB as per FracPro. CFT 1200 - 13 cups Protechnics tracer. Ball Seat Stage Pressures and Rate: 5169 psi @ 14.5 bpm , 4528 psi Pressure before Seating , psi Pressure after Seating, WG-36-4.9% (80.1), BC-200-3.6% (3.8), FR-76-3.3% (1.2),BA-20-4.7% (1.2), MC S-2510T-4.2% (3) Losurf 300D-4.2% (5.9), FE-2A-6.6% (2.9), BE-9-4.8% (2)

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
20:30	23:00	Plug and Perf: Stage #7, RIH with guns and Plug to KOP. Pumped down guns at 12.1 bpm @ 4,209 Psi, @220 fpm, 830 LT, pumped guns to 16,380', Pulled up and got line tension and set plug @16,340'. Line tension prior to setting plug 1,870, line tension after plug set 1,640, plug set time 50secs. POOH and perforated at (16,282'-16,285') (16,200'-16,203'). POOH with tools, max pressure for pump down: 4,209 Max rate for pump down- 12.2 bpm. Total BBls pumped-434. POOH W/Wireline all shots fired, Turn well over to Frac
23:00	00:00	Start Frac stage #7

Report Start Date	Report End Date	24hr Activity Summary
12/1/2014	12/2/2014	Frac stages 3,4,5,& 6. P&P stages 4,5,6, &7.

Start Time	End Time	Comment
00:00	00:30	Start Frac stage #7, Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. Calculated 17 holes open, 766 psi perf friction, 1207 psi NWB as per FracPro.CFT 1300 - 15 cups Protechnics tracer. WG-36-4.9% (80.4), FR-76-2.9% (1), MC S-2510T-4.4% (3) Vicon NF-4% (8.1), Losurf 300D-4.4% (6), BE-9-2.9% (1.2)
00:30	02:30	Plug and Perf: Stage #8, RIH with guns and Plug to KOP. Pumped down guns at 14 bpm @ 4,449 Psi, @250 fpm, 900 LT, pumped guns to 16,195', Pulled up and got line tension and set plug @16,168'. Line tension prior to setting plug 1,870, line tension after plug set 1,650, plug set time 68 secs. POOH and perforated at (16,104'-16,107') (16,040'-16,043'). POOH with tools, max pressure for pump down: 4,449 Max rate for pump down- 14 bpm. Total Bbls pumped- 432. POOH W/Wireline all shots fired, Turn well over to Frac
02:30	04:30	Start Frac stage #8 Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. Calculated 15 holes open, 1087 psi perf friction, 671 psi NWB as per FracPro. 14.5 cups 1300 CFT Protechnics. BC-200-2.8% (3), FR-76-4.6% (1.6), CL-31-7.4% (1.2), MC S-2510T-4.8% (3.3) Vicon NF-4% (8), Losurf 300D-4.1% (5.6)FE-2A-8.1% (3.3), BE-9-3.4% (1.4)
04:30	06:30	Plug and Perf: Stage #9, RIH with guns and Plug to KOP. pumped down guns at 13.9 bpm @ 4340 Psi, @250 fpm, 900 LT, pumped guns to 15,996', Pulled up and got line tension and set plug. Line tension prior to setting plug 1960, line tension after plug set 1600, plug set time 1min30secs. POH and perf'ed at (15,940'-15,943') (15,880'-15,883') (15,820'-15,823'). POOH with tools, max pressure for pump down:4340 Max rate for pump down- 14bpm. Total BBls pumped-438.5. POOH W/Wireline all shots fired, Turn well over to Frac
06:30	08:30	Start Frac stage #9, 1. Global Kick Outs set at 9500 psi. Pressure tested to 10450 psi. Job pumped Produced Water. 2. Calculated 22 holes open, 988 psi perf friction, 885 psi NWB as per FracPro. 3. Good job execution by the crew, all sand placed in formation. Ball Seat Stage Pressures and Rate: 5575 psi @ 15.2 bpm , 4723 psi Pressure before Seating , 5590 psi Pressure after Seating BC-200-2.9% (4.7), MO-67-2.3% (1.9), MC S-2510T-4.7% (4) Vicon NF-4.3% (11.8), Losurf 300D-4.7% (8), FE-2A-6.7% (3.1), BE-9-4.7% (2.4)
08:30	10:30	Plug and Perf: Stage #10 RIH with guns and Plug to KOP. pumped down guns at 13.2 bpm @ 4206 Psi, @250 fpm, 915 LT, pumped guns to 15,670', Pulled up and got line tension and set plug. Line tension prior to setting plug 1820, line tension after plug set 1545, plug set time 1min15secs. POH and perf'ed at (15,620'-15,623') (15,550'-15,553') (15,480'-15,483'), POOH with tools, max pressure for pump down: 4206, Max rate for pump down- 13.2bpm. Total BBls pumped-386.8. . POOH W/Wireline all shots fired, Turn well over to Frac

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
10:30	13:00	Start Frac stage #10, 1. Global Kick Outs set at 9500 psi. Pressure tested to 10533 psi. Job pumped Produced Water.2. Calculated 20 holes open, 1188 psi perf friction, 693 psi NWB as per FracPro.3. Did not see a 200 psi loss across the 15 minute shutdown. 4. Good job execution by the crew, all sand placed. 5. Minor rate fluctuation during middle of job, rate loss 1 bpm or less. Lined out for remainder of job.Ball Seat Stage Pressures and Rate: 4900 psi @ 15.1 bpm , 4300 psi Pressure before Seating , 4910 psi Pressure after Seating. FR-76-5.2% (2), CL-31-4.3% (1) MC S-2510T-3.7% (3.2) Losurf 300D-3.1% (5.3)FE-2A-5% (2.2), BE-9-4.1% (2.1)
13:00	15:30	Plug and Perf: Stage #11 RIH with guns and Plug to KOP. pumped down guns at 13.6 bpm @ 4109 Psi, @246 fpm, 915 LT, pumped guns to 15,436', Pulled up and got line tension and set plug. Line tension prior to setting plug 1730, line tension after plug set 1458, plug set time 31secs. POH and perf'ed at (15,411'-15,414') (15,341'-15,344') (15,281'-15,284'), POOH with tools, max pressure for pump down: 4109, Max rate for pump down- 13.6bpm. Total BBls pumped-385.5 . POOH W/Wireline all shots fired, Turn well over to Frac
15:30	16:00	Weatherford Greasing 7 1/16" Frac stack
16:00	17:30	Start Frac stage #11 (Chemical pump down 45 mins, resume frac with no other issues. Fracing stage #11 at present.) 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 21 holes open, 1186 psi perf friction, 350 psi NWB as per FracPro. 3. Lost the mixing bowl on the Growler at the end of 1.5 ppa sand, staged and dropped rate to see if it could recover. Gel was essentially gone, cut prop and flushed the well. Down 45 minutes.
17:30	18:15	Chemical blending pump down, repaired and continue with frac of stage #11 with no other issues.
18:15	19:30	Finisht Frac stage #11 Continue frac of stage #11 (Chemical pump down 45 mins, resume frac with no other issues. Fracing stage #11 at present.) 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 21 holes open, 1186 psi perf friction, 350 psi NWB as per FracPro. 3. Lost the mixing bowl on the Growler at the end of 1.5 ppa sand, staged and dropped rate to see if it could recover. Gel was essentially gone, cut prop and flushed the well. Down 45 minutes. Continue frac stage #11 4. Had a dip in prop con on 1.5 ppa stage, able to recover. Hopper dropped too low. 5. Remainder of the job went well with all proppant placed. Ball Seat Stage Pressures and Rate: 4770 psi @ 15.2 bpm , 4200 psi Pressure before Seating , 4775 psi Pressure after Seating WG-36-4.6% (143.5), BC-200-3.6% (8), FR-76-2.7% (1.3),BA-20-3.2% (1.6), CL-31-3.7% (1.3), MO-67-3.1% (3.5), Losurf 300D-4.4% (9.6), BE-9-3.3% (2.2)
19:30	22:00	Plug and Perf: Stage #12 RIH with guns and Plug to KOP. pumped down guns at 14.1 bpm @ 4131 Psi, @238 fpm, 958 LT, pumped guns to 15,236', Pulled up and got line tension and set plug. Line tension prior to setting plug 1764, line tension after plug set 1526, plug set time 55 secs. POH and perf'ed at (15,216'-15,219') (15,141'-15,144') (15,065'-15,068'), POOH with tools, max pressure for pump down: 4131, Max rate for pump down- 14.1 bpm. Total BBls pumped-386.02. POOH W/Wireline all shots fired, Turn well over to Frac.

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
22:00	00:00	Start Frac stage #12 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 20 holes open, 1055 psi perf friction, 335 psi NWB as per FracPro. 3. 100 Mesh bin emptied late resulting in longer 1 ppg 100 Mesh stage. 4. Stage went well with all proppant placed. Ball Seat Stage Pressures and Rate: 4842 psi @ 14.9 bpm , 4441 psi Pressure before Seating , 4842 psi Pressure after Seating WG-36-3.7% (83.6), BC-200-2.5% (4), FR-76-4.2% (1.8),BA-20-4.1% (1.5), Losurf 300D-3.6% (6.5), FE-2A-3.1% (1.5), BE-9-2.1% (1.1)

Report Start Date	Report End Date	24hr Activity Summary
12/2/2014	12/3/2014	Frac stages 13,14,15,16,17,18,19 P&P stages 13,14,15,16,17,18,19

Start Time	End Time	Comment
00:00	00:30	Finish stage #12 frac.
00:30	02:45	Plug and Perf: Stage #13 RIH with guns and Plug to KOP. pumped down guns at 12.1 bpm @ 4,161 Psi, @234 fpm, 890 LT, pumped guns to 15,021', Pulled up and got line tension and set plug. Line tension prior to setting plug 1722, line tension after plug set 1,460, plug set time 46 secs. POH and perf'ed at (14,985'-14,988') (14,910'-14,913') (14,834'-1,837'), POOH with tools, max pressure for pump down: 4,161, Max rate for pump down 12.1 bpm. Total BBls pumped 331.40, POOH W/Wireline all shots fired, Turn well over to Frac.
02:45	05:00	Start Frac stage #13. Global Kick outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water.2. Calculated 24 holes open, 28 psi perf friction, 697 psi NWB as per FracPro.3. Stage went well with all proppant placed.4. Protechnics pumped 19.5 cups of FTP 1600.Ball Seat Stage Pressures and Rate: 4218 psi @ 15 bpm , 4115 psi Pressure before Seating , 4218 psi Pressure after Seating, FR-76-4.6% (1.7), MC S-2510T-3.9% (3.2) Vicon NF-4.4% (11.1), Losurf 300D-4% (6.6), FE-2A-4.2% (1.8), BE-9-3.4% (1.7).
05:00	07:00	Plug and Perf: Stage #14 RIH with guns and Plug to KOP. pumped down guns at 12 bpm @ 4,043 Psi, @240 fpm, 900 LT, pumped guns to 14,794' Pulled up and got line tension and set plug. Line tension prior to setting plug 1642, line tension after plug set 1,390, plug set time 1min. POH and perf'ed at (14,754'-14,757') (14,679'-14,682') (14,603'-14,606'), POOH with tools, max pressure for pump down: 4,050, Max rate for pump down 12.1 bpm. Total BBls pumped 316, POOH W/Wireline all shots fired, Turn well over to Frac.
07:00	09:30	Start Frac Stage #14. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 23 holes open, 765 psi perf friction, 145 psi NWB as per FracPro. 3. Good job execution by the crew, all sand pumped. Ball Seat Stage Pressures and Rate: 4212 psi @ 15.8 bpm , 4053 psi Pressure before Seating , 4220 psi Pressure after Seating WG-36-3.1% (69.4), CL-31-6.3% (1.5) MO-67-2% (1.6), Losurf 300D-2.6% (4.2) BE-9-3.7% (1.8)
09:30	11:30	Plug and Perf: Stage #15 RIH with guns and Plug to KOP. pumped down guns at 14.1 bpm @ 3,921 Psi, @256 fpm, 950 LT, pumped guns to 14,537' Pulled up and got line tension and set plug @14,551'. Line tension prior to setting plug 1,819, line tension after plug set 1,540, plug set time 1min 25 sec. POH and perf'ed at (14,523'-14,526') (14,448'-14,451') (14,372'-14,375'), POOH with tools, max pressure for pump down: 3,921, Max rate for pump down 14.1 bpm. Total BBls pumped 303, POOH W/Wireline all shots fired, Turn well over to Frac.

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
11:30	13:30	Start Frac Stage #15. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10480 psi. Job pumped Produced Water. 2. Calculated 24 holes open, 751 psi perf friction, 310 psi NWB as per FracPro. 3. Good job execution by the crew, all proppant placed. Ball Seat Stage Pressures and Rate: 4225 psi @ 15.5 bpm , 4080 psi Pressure before Seating , 4228 psi Pressure after Seating WG-36-5.9% (129.7), BC-200-5.2% (8.2), FR-76-5.1% (1.8),BA-20-6.7% (2.4), CL-31-6.3% (1.5) MO-67-2% (1.6), MC S-2510T-5.6% (4.4) Vicon NF-7.5% (19.5), Losurf 300D-5.1% (8.1) FE-2A-4.4% (1.8), BE-9-4.9% (2.3)
13:30	15:30	Plug and Perf: Stage #16 RIH with guns and Plug to KOP. pumped down guns at 13 bpm @ 3,930 Psi, @250 fpm, 900 LT, pumped guns to 14,340' Pulled up and got line tension and set plug @14,330'. Line tension prior to setting plug 1,830, line tension after plug set 1,560, plug set time 1min. POH and perf'ed at (14,292'-14,295') (14,217'-14,220') (14,141'-14,144'), POOH with tools, max pressure for pump down: 3,930, Max rate for pump down 13.1 bpm. Total BBls pumped 315.
15:30	16:30	Grease Frac Tree.
16:30	18:30	Drop Ball & turn over to frac. Start Frac Stage #16. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 21 holes open, 909 psi perf friction, 128 psi NWB as per FracPro. 3. Gel ran about 200 lbs low, early time visc was running 1-2 cp light. 4. Good job execution by the crew, all sand placed. Ball Seat Stage Pressures and Rate: 4376 psi @ 15.8 bpm , 4163 psi Pressure before Seating , 4380 psi Pressure after Seating WG-36-10.5% (221.8), BC-200-4% (6.2), FR-76-3.1% (1), MO-67-3.8% (2.9), Vicon NF-6.1% (15.3), Losurf 300D-4.9% (7.5), FE-2A-3.4% (1.3), BE-9-4.9% (2.2)
18:30	20:30	Plug and Perf: Stage #17 RIH with guns and Plug to KOP. pumped down guns at 12.1 bpm @ 3,869 Psi, @208 fpm, 857 LT, pumped guns to 14,094', Pulled up and got line tension and set plug. Line tension prior to setting plug 1,634, line tension after plug set 1,383, plug set time 39 secs. POH and perf'ed at (14,061'-14,064') (13,986'-13,989') (13,910'-13,913'), POOH with tools, max pressure for pump down: 9,936, Max rate for pump down 12.1 bpm. Total BBls pumped 317.73, POOH W/Wireline all shots fired, Turn well over to Frac.
23:00	01:00	frac 17
20:30	23:00	Start Frac Stage #17. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 27 holes open, 586 psi perf friction, 76 psi NWB as per FracPro. 3. Stage went well with all proppant placed. 4. ProTechnics pumped 18 Cups of CFT 1900. BC-200-4% (6.4), FR-76-3.5% (1.2), MO-67-3.5% (2.8), MC S-2510T-2.6% (2) Vicon NF-3.9% (9.5), Losurf 300D-4.5% (7) FE-2A-4.2% (1.6), BE-9-4.7% (2.2)
02:00	02:00	P&P 18
01:00	02:00	RIH to P&P Stage # 18.

Report Start Date	Report End Date	24hr Activity Summary
12/3/2014	12/4/2014	Frac stages 13,14,15,16,17,18,19 P&P stages 13,14,15,16,17,18,19

Start Time	End Time	Comment
00:00	01:00	Plug and Perf: Stage #18 RIH with guns and Plug to KOP. pumped down guns at 12.1 bpm @ 4,037 Psi, @247 fpm, 880 LT, pumped guns to 13,853', Pulled up and got line tension and set plug. Line tension prior to setting plug 1,564, line tension after plug set 1,333, plug set time 64 secs. POH and perf'ed at (13,830'-13,833') (13,755'-13,758') (13,679'-13,682'), POOH with tools, max pressure for pump down: 4,037, Max rate for pump down 12.1 bpm. Total BBls pumped 278.27, POOH W/Wireline all shots fired, Turn well over to Frac.

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
01:00	03:00	Start Frac Stage # 18. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 24 holes open, 714 psi perf friction, 37 psi NWB as per FracPro. 3. Stage went well with all proppant placed. 4. ProTechnics pumped 17 cups of CFT 2000 during the stage. Ball Seat Stage Pressures and Rate: 4286 psi @ 14.9 bpm , 4102 psi Pressure before Seating , 4286 psi Pressure after Seating. BC-200-4.3% (6.8), FR-76-3.8% (1.3), MO-67-2.7% (2.1), MC S-2510T-4.2% (3.3) Vicon NF-3.8% (9.4), Losurf 300D-4.2% (6.5) BE-9-2.2% (1)
03:00	05:00	Plug and Perf: Stage #19 RIH with guns and Plug to KOP. pumped down guns at 12.1 bpm @ 4,139 Psi, @236 fpm, 913 LT, pumped guns to 13,630', Pulled up and got line tension and set plug. Line tension prior to setting plug 1,485, line tension after plug set 1,201, plug set time 90 secs. POH and perf'ed at (13,599'-13,602') (13,524'-13,527') (13,448'-13,451'), POOH with tools, max pressure for pump down: 4,139, Max rate for pump down 12.1 bpm. Total BBls pumped 265.12, POOH W/Wireline. All shots fired. Drop ball & turn over to Frac.
05:00	07:00	Start Frac Stage #19. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 25 holes open, 713 psi perf friction, 58 psi NWB as per FracPro. 3. Observed a pressure build with 1 ppg 100 mesh on formation and again with 1.5 ppg 30/50 on formation. 4. Stage went well with all proppant placed. Ball Seat Stage Pressures and Rate: 4262 psi @ 15.4 bpm , 4135 psi Pressure before Seating , 4262 psi Pressure after Seating. WG-36-11.8% (260.5), BC-200-5% (7.8), FR-76-3.1% (1),BA-20-4.1% (1.5), MO-67-3.9% (3.1), MC S-2510T-4.2% (3.3) Vicon NF-4.2% (10.2), Losurf 300D-4.7% (7.4) Cat 3/4-5.3% (1.2), BE-9-4.3% (2)
07:00	09:00	Plug and Perf: Stage #20 RIH with guns and Plug to KOP. pumped down guns at 12.1 bpm @ 3,844 Psi, @245 fpm, 905 LT, pumped guns to 13,395' Pulled up and got line tension and set plug @13,396'. Line tension prior to setting plug 1,593, line tension after plug set 1,370, plug set time 47 sec. POH and perf'ed at (13,368'-13,371') (13,293'-13,296') (13,217'-13,220'), POOH with tools, max pressure for pump down: 3,844, Max rate for pump down 13.1 bpm. Total BBls pumped 269. All shots fired. Drop ball & turn over to Frac.
09:00	11:00	Start Frac Stage #20. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 26 holes open, 705 psi perf friction, 298 psi NWB as per FracPro. 3. Good job execution by the crew, all sand placed. Ball Seat Stage Pressures and Rate: 4300 psi @ 15.8 bpm , 4015 psi Pressure before Seating , 4311 psi Pressure after Seating. WG-36-5% (104.6), BC-200-4.9% (7.4), FR-76-25.8% (7.2), MO-67-3.7% (2.8), MC S-2510T-5% (3.8) Vicon NF-9.8% (24.5), Losurf 300D-4.4% (6.7) FE-2A-6.7% (2.4), Cat 3/4-7.4% (1.7),
11:00	12:30	: Plug and Perf: Stage #21 RIH with guns and Plug to KOP. pumped down guns at 13 bpm @ 3,921 Psi, @260 fpm, 905 LT, pumped guns to 13,195' Pulled up and got line tension and set plug @13,165'. Line tension prior to setting plug 1,638, line tension after plug set 1,408, plug set time 50 sec. POH and perf'ed at (13,137'-13,140') (13,062'-13,065') (12,986'-12,989'), POOH with tools, max pressure for pump down: 3,921, Max rate for pump down 13 bpm. Total BBls pumped 259. All shots fired. Shut HCR valve.
12:30	13:30	Grease Frac Tree.
13:30	15:30	Start Frac Stage #21. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 23 holes open, 969 psi perf friction, 405 psi NWB as per FracPro. 3. Gel coming during job a 1-2 points light. XL samples looked good throughout. 4. Good job execution by the crew, all sand placed. Ball Seat Stage Pressures and Rate: 4472 psi @ 15.5 bpm , 4126 psi Pressure before Seating , 4475 psi Pressure after Seating BC-200-2.1% (3.3), FR-76-13.7% (3.6),BA-20-14.4% (5.3), MC S-2510T-4.3% (3.3) Vicon NF-8.4% (23), Losurf 300D-3.6% (5.7) FE-2A-17.1% (5.5), Cat 3/4-30.7% (8), BE-9-4.3% (2)

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
15:30	17:00	Plug and Perf: Stage #22 RIH with guns and Plug to KOP. pumped down guns at 13.1 bpm @ 4,033 Psi, @254 fpm, 900 LT, pumped guns to 12,950' Pulled up and got line tension and set plug @12,934'. Line tension prior to setting plug 1,850, line tension after plug set 1,600, plug set time 19 sec. POH and perf'ed at (12,906'-12,909') (12,831'-12,834') (12,755'-12,758'), POOH with tools, max pressure for pump down: 4,033, Max rate for pump down 13.1 bpm. Total BBls pumped 254. POOH W/tools & check guns. Drop ball & turn over to Frac
17:00	19:00	Frac Stage #22, 1. Global Kick Outs set at 9500 psi. Pressure tested to 10400 psi. Job pumped Produced Water. 2. Calculated 25 holes open, 853 psi perf friction, 663 psi NWB as per FracPro. 3. Lost a pump due to power end problem, made up rate with remaining 9 pumps. 4. Stage treated well with all proppant placed. Ball Seat Stage Pressures and Rate: 4742 psi @ 15.2 bpm , 4343 psi Pressure before Seating , 4744 psi Pressure after Seating, WG-36-2.5% (43.4), BC-200-4.7% (7.1), FR-76-3.8% (1.2),BA-20-3.6% (1.3), MO-67-4.7% (3.6), MC S-2510T-3% (2.3) Vicon NF-4.5% (10.8), Losurf 300D-4.3% (6.6), FE-2A-2.7% (1), BE-9-3.9% (1.8)
19:00	21:00	Plug and Perf: Stage #23 RIH with guns and Plug to KOP. pumped down guns at 11.0 bpm @ 3,938 Psi, @231 fpm, 820 LT, pumped guns to 12,717', Pulled up and got line tension and set plug. Line tension prior to setting plug 1,620, line tension after plug set 1,440, plug set time 30 secs. POH and perf'ed at (12,675'-12,678') (12,600'-12,603') (12,495'-12,498'), POOH with tools, max pressure for pump down: 3,938, Max rate for pump down 11.0 bpm. Total BBls pumped 246.28, POOH W/Wireline all shots fired, Turn well over to Frac.
21:00	23:30	Start Frac Stage #23, 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 24 holes open, 422 psi perf friction, 613 psi NWB as per FracPro. 3. Stage went well with all proppant placed. Ball Seat Stage Pressures and Rate: 4716 psi @ 14.6 bpm , 4300 psi Pressure before Seating , 4716 psi Pressure after Seating, WG-36-2.6% (45.3), BC-200-4.2% (6.5), BA-20-3.9% (1.3), MO-67-3.5% (2.7), Vicon NF-3.5% (7.9), Losurf 300D-4.6% (6.8)
23:30	00:00	Start in hole to P&P stage #24 at report time,

Report Start Date	Report End Date	24hr Activity Summary
12/4/2014	12/5/2014	Frac stages 24,25,26,27,28 & 29 P&P stages 24,25,26,27,28,29 & 30

Start Time	End Time	Comment
00:00	01:30	Plug and Perf: Stage #24 RIH with guns and Plug to KOP. pumped down guns at 12.0 bpm @ 3,980 Psi, @235 fpm, 829 LT, pumped guns to 12,462', Pulled up and got line tension and set plug. Line tension prior to setting plug 1,540, line tension after plug set 1,278, plug set time 54 secs. POH and perf'ed at (12,444'-12,447') (12,369'-12,372'), POOH with tools, max pressure for pump down: 3,980, Max rate for pump down 12.0 bpm. Total BBls pumped 215.10, POOH W/Wireline all shots fired, Turn well over to Frac.
01:30	03:30	Start Frac Stage #24, 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 17 holes open, 1216 psi perf friction, 370 psi NWB as per FracPro. 3. Hopper dropped off during 0.5 ppg 100 mesh resulting in a dip in proppant concentration.WG-36-4.8% (70.5), BC-200-4.7% (5.2), FR-76-4.1% (1.2), MO-67-3.8% (2.1), MC S-2510T-4.2% (2.6) Vicon NF-4.8% (8.9), Losurf 300D-4% (4.9), BE -9-4.8% (1.7).

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
03:30	05:00	Plug and Perf: Stage #25 RIH with guns and Plug to KOP. pumped down guns at 12.0 bpm @ 4,293 Psi, @230 fpm, 820 LT, pumped guns to 12,248', Pulled up and got line tension and set plug. Line tension prior to setting plug 1,570, line tension after plug set 1,270, plug set time 53 secs. POH and perf'ed at (12,293'-12,296') (12,196'-12,199') (12,062'-12,065'), POOH with tools, max pressure for pump down: 4,293, Max rate for pump down 12.0 bpm. Total BBls pumped 196.55, POOH W/Wireline all shots fired, Turn well over to Frac.
05:00	07:00	Start Frac Stage #25. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 24 holes open, 576 psi perf friction, 352 psi NWB as per FracPro. 3. Stage went well with all proppant placed. Ball Seat Stage Pressures and Rate: 4521 psi @ 14.9 bpm , 4249 psi Pressure before Seating , 4521 psi Pressure after Seating WG-36-20.1% (332.9), BC-200-4.5% (7.2), BA-20-3.6% (1.2), MO-67-3.9% (3.1), MC S-2510T-4.1% (3.1) Vicon NF-4.4% (10.2), Losurf 300D-3.5% (5.2) FE-2A-4.1% (1.4), BE-9-2.4% (1.1)
07:00	08:30	P&P Stage #26. RIH with guns and Plug to KOP. pumped down guns at 13.1 bpm @ 4,046 Psi, @250 fpm, 910 LT, pumped guns to 12,020' Pulled up and got line tension and set plug @12,010'. Line tension prior to setting plug 1,414, line tension after plug set 1,270, plug set time 56 sec. POH and perf'ed at (11,984'-11,987') (11,924'-11,927') (11,868'-11,871'), POOH with tools, max pressure for pump down: 4,046, Max rate for pump down 13.1 bpm. Total BBls pumped 201. POOH W/tools. All shots fired . Drop ball & turn over to Frac.
08:30	10:30	Start Frac Stage #26. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10450 psi. Job pumped Produced Water. 2. Calculated 26 holes open, 683 psi perf friction, 747 psi NWB as per FracPro. 3. A few minor pump problems up front with the rate, was able to line out at 60 bpm for job. 4. Had a quick sand spike on 1.5 ppa stage, fat fingered number in the van. 5. Overall good job execution by the crew, all sand placed. Ball Seat Stage Pressures and Rate: 5170 psi @ 16.2 bpm , 4558 psi Pressure before Seating , 5179 psi Pressure after Seating. WG-36-9.8% (170.9), BC-200-4% (6.2), BA-20-3% (1), MO-67-4% (3.1), MC S-2510T-5.1% (3.8) Vicon NF-4.5% (10.8), Losurf 300D-4.3% (6.4) BE-9-4.7% (2.1)
10:30	12:00	Plug and Perf: Stage #27 RIH with guns and Plug to KOP. pumped down guns at 12.6 bpm @ 4,165 Psi, @257 fpm, 892 LT, pumped guns to 11,850' Pulled up and got line tension and set plug @11,835'. Line tension prior to setting plug 1,595, line tension after plug set 1,396, plug set time 44 sec. POH and perf'ed at (11,804'-11,807') (11,744'-11,747') (11,684'-11,687'), POOH with tools, max pressure for pump down: 4,165, Max rate for pump down 12.6 bpm. Total BBls pumped 184. POOH w/ tools. All shots fired. Shut HCR.
12:00	13:00	Grease Frac Tree.
13:00	15:00	Start Frac Stage # 27. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10460 psi. Job pumped Produced Water. 2. Calculated 27 holes open, 450 psi perf friction, 1092 psi NWB as per FracPro. 3. Good job execution, all sand placed. 4. Gel continues to run heavy, visc is still running 16-17 cp at 75F. WG-36-17.9% (305.8), BC-200-5.3% (8.1), FR-76-4.2% (1.3),BA-20-3.6% (1.2), MO-67-4.6% (3.5), MC S-2510T-3.3% (2.5) Vicon NF-5.3% (12.5), Losurf 300D-4.7% (7.1) FE-2A-3.4% (1.2), BE-9-5.2% (2.3)
15:00	16:30	Plug and Perf: Stage #28 RIH with guns and Plug to KOP. pumped down guns at 12.8 bpm @ 4,160 Psi, @264 fpm, 928 LT, pumped guns to 11,650' Pulled up and got line tension and set plug @11,630'. Line tension prior to setting plug 1,301, line tension after plug set 1,158, plug set time 67 sec. POH and perf'ed at (11,605'-11,608') (11,550'-11,553') (11,475'-11,478'), POOH with tools, max pressure for pump down: 4,160, Max rate for pump down 12.8 bpm. Total BBls pumped 169. POOH w/ tools. All shots fired . Drop ball & turn over to frac.

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
16:30	18:30	Start Frac Stage #28. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 25 holes open, 808 psi perf friction, 647 psi NWB as per FracPro. 3. Good job execution, all sand placed. Ball Seat Stage Pressures and Rate: 4675 psi @ 15 bpm , 4300 psi Pressure before Seating , 4690 psi Pressure after Seating. WG-36-4.6% (80.8), BC-200-2.7% (4.3), FR-76-4.2% (1.2),BA-20-4.5% (1.5), CL-31-4.6% (1.1) MO-67-5% (4), MC S-2510T-4.7% (3.4) Vicon NF-4.8% (11), Losurf 300D-4.7% (6.7) FE-2A-3.7% (1.2), BE-9-4.7% (2)
18:30	20:00	Plug and Perf: Stage #29 RIH with guns and Plug to KOP. pumped down guns at 12.9 bpm @ 4,100 Psi, @ 288 fpm, 870 LT, pumped guns to 11,450' Pulled up and got line tension and set plug @11,410'. Line tension prior to setting plug 1,290, line tension after plug set 1,120, plug set time 69 sec. POOH and perf'ed at (11,400'-403') (11,325'-328') (11,250'-253'), POOH with tools, max pressure for pump down: 4,100, Max rate for pump down 12.9 bpm. Total BBls pumped 150. POOH w/ tools. All shots fired . Drop ball & turn over to frac. To Frac Stage #29.
20:00	22:00	Frac stage #29 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 23 holes open, 724 psi perf friction, 357 psi NWB as per FracPro. 3. Stage treated well with all proppant placed. 4. Had rate fluctuate shortly after going to flush. WG-36-3.9% (68), BC-200-4.2% (6.5), FR-76-4.5% (1.3),BA-20-3.5% (1.1), MO-67-4.9% (3.8), MC S-2510T-4.5% (3.1) Losurf 300D-4.5% (6.3) FE-2A-4.1% (1.3), BE-9-4.1% (1.7)
22:00	23:30	Plug and Perf: Stage #30 RIH with guns and Plug to KOP. pumped down guns at 12.7 bpm @ 4,128 Psi, @ 302 fpm, 834 LT, pumped guns to 11,190' Pulled up and got line tension and set plug @11,170'. Line tension prior to setting plug 1,320, line tension after plug set 1,160, plug set time 65 sec. POOH and perf'ed at (11,175'-178') (11,100'-103') (11,025'-028'), POOH with tools, max pressure for pump down: 4,128, Max rate for pump down 12.7 bpm. Total BBls pumped 130. POOH w/ tools. All shots fired . Drop ball & turn over to frac. To Frac Stage #30.
23:30	00:00	Frac stg #30

Report Start Date	Report End Date	24hr Activity Summary
12/5/2014	12/6/2014	Frac stgs 30,31,32,33 & 34. Perfed stgs 31,32,33,34 & 35

Start Time	End Time	Comment
00:00	01:30	Frac stg #30 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 21 holes open, 861 psi perf friction, 347 psi NWB as per FracPro. 3. Had rate fluctuating from the middle of 1.5 ppg to 2.5 ppg and again during flush. 4. Cat 3/4 had trouble lining out until 2.5 ppg and gel ran heavy throughout the stage. 5. Stage treated well with all proppant placed. Ball Seat Stage Pressures and Rate: 4591 psi @ 14.9 bpm , 4319 psi Pressure before Seating , 4591 psi Pressure after Seating. WG-36-16.7% (281.8), BC-200-4.8% (7.5), FR-76-4.6% (1.3),BA-20-5% (1.7), MO-67-4.2% (3.2), MC S-2510T-4.6% (3.2) Vicon NF-5.4% (12.2), Losurf 300D-5.3% (Cat 3/4-28.8% (6.1), BE-9-5% (2.1)
01:30	03:30	Plug and Perf: Stage #31 RIH with guns and Plug to KOP. pumped down guns at 13.1 bpm @ 3,950 Psi, @ 287 fpm, 880 LT, pumped guns to 10,955' Pulled up and got line tension and set plug @10,945'. Line tension prior to setting plug 1,280, line tension after plug set 1,115, plug set time 74 sec. POOH and perf'ed at (10,950'-953') (10,875'-878') (10,800'-803'), POOH with tools, max pressure for pump down: 3,950, Max rate for pump down 13.1 bpm. Total BBls pumped 82. POOH w/ tools. To Frac Stage #31.

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
03:30	06:00	Had to wait on stg #31 frac due to Halliburton working on horsepower. Start Frac Stage #31. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 25 holes open, 645 psi perf friction, 352 psi NWB as per FracPro. 3. Stage treated well with all proppant placed. 4. Pump operator unintentionally dropped rate just after staging to flush. Rate was completely recovered. 5. Gel ran heavy to get the correct visc. Ball Seat Stage Pressures and Rate: 4456 psi @ 14.8 bpm , 4183 psi Pressure before Seating , 4456 psi Pressure after Seating. WG-36-17.7% (292.5), BC-200-4.8% (7.6), CL-31-4.6% (1.1) MO-67-4.6% (3.7), MC S-2510T-3.7% (2.6) Vicon NF-5.2% (11.7), Losurf 300D-5.2% (7.3) FE-2A-4.8% (1.5), BE-9-4.2% (1.8)
06:00	07:00	Plug and Perf: Stage #32 RIH with guns and Plug to KOP. pumped down guns at 13.1 bpm @ 4,180 Psi, @ 258 fpm, 920 LT, pumped guns to 10,790' Pulled up and got line tension and set plug @10,756'. Line tension prior to setting plug 1,242, line tension after plug set 1,093, plug set time 40 sec. POOH and perf'ed at (10,725'-728') (10,675'-678') (10,578'-581'), POOH with tools, max pressure for pump down: 4,180, Max rate for pump down 13.1 bpm. Total BBls pumped 131. POOH w/ tools. All shot fired. Shut in HCR.
07:00	08:00	Grease Frac Tree.
08:00	10:00	Start Frac Stage #32. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 25 holes open, 728 psi perf friction, 736 psi NWB as per FracPro. 3. MO-67 tote was swapped before job start. Had XL confirmed and went to sand. Lost XL towards end of 1.5 ppa stage. Increased set point and regained XL. Will check tote after job. 4. Good job execution by the crew, all sand placed. Ball Seat Stage Pressures and Rate: 4890 psi @ 15.2 bpm , 4483 psi Pressure before Seating , 4895 psi Pressure after Seating WG-36-17% (284.2), FR-76-5.7% (1.6),BA-20-4.4% (1.5), CL-31-6.4% (1.5) MO-67-9.8% (10.7), MC S-2510T-5.4% (3.7) Vicon NF-5.8% (12.8), Losurf 300D-6.1% (8.5) BE-9-3.5% (1.4)
10:00	14:00	Ran in hole W/wireline & pumped down to 10,500' and lost communication W/CCL tried a few things to get it to work with no luck. Pooh W/tools & cut off 1000' of wireline. Fixed some wiring in truck. Checked everything on surface everything working like designed.
14:00	16:00	Plug and Perf: Stage #33 RIH with guns and Plug to KOP. pumped down guns at 12.9 bpm @ 4,439 Psi, @ 256 fpm, 899 LT, pumped guns to 10,565' Pulled up and got line tension and set plug @10,550'. Line tension prior to setting plug 1,246, line tension after plug set 1,063, plug set time 50 sec. POOH and perf'ed at (10,525'-528') (10,455'-458') (10,385'-388'), POOH with tools, max pressure for pump down: 4,439, Max rate for pump down 12.9 bpm. Total BBls pumped 131. POOH w/ tools. All shot fired. Drop ball & turn over to Frac.
16:00	18:00	Start Frac Stage #34. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 24 holes open, 751 psi perf friction, 740 psi NWB as per FracPro. 3. Had problems starting MO-67, dropped rate to trouble shoot. The tote was closed, re-prime the line and got going. Once good XL was established, proceeded with sand. The XL pad ran long before starting the 30/50. 4. Started to MO-67 at 1.5 gpt, pH started creeping higher during job. Backed off to a 1 gpt for the remainder of the job. 5. Overall good job execution by the crew, all sand placed. Ball Seat Stage Pressures and Rate: 4860 psi @ 14.9 bpm , 4610 psi Pressure before Seating , 4865 psi Pressure after Seating. WG-36-9.8% (183.4), BC-200-4.9% (8.5), FR-76-4.7% (1.3),BA-20-4.1% (1.5), MO-67-3.5% (3.8), MC S-2510T-4.7% (3.5) Vicon NF-4.3% (10.3), Losurf 300D-4.7% (7) FE-2A-3.6% (1.1), BE-9-2.9% (1.3)

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
18:00	19:30	Plug and Perf: Stage #34 RIH with guns and Plug to KOP. pumped down guns at 12.8 bpm @ 4,200 Psi, @ 286 fpm, 882 LT, pumped guns to 10,355' Pulled up and got line tension and set plug @10,310'. Line tension prior to setting plug 1,250 line tension after plug set 1,110, plug set time 75 sec. POOH and perf'ed at (10,315'-318') (10,245'-248') (10,175'-178'), POOH with tools, max pressure for pump down: 4,200, Max rate for pump down 12.8 bpm. Total BBls pumped 101. POOH w/ tools.
19:30	21:30	Frac stg #34 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 21 holes open, 892 psi perf friction, 28 psi NWB as per FracPro. 3. Stage went well with all proppant placed. Ball Seat Stage Pressures and Rate: 4802 psi @ 15.1 bpm , 4435 psi Pressure before Seating , 4802 psi Pressure after Seating. WG-36-17% (287.8), BC-200-4.9% (8), MO-67-4.4% (3.5), MC S-2510T-4.1% (2.9) Vicon NF-4.7% (10.6), Losurf 300D-4.4% BE-9-3.4% (1.5)
21:30	23:00	Plug and Perf: Stage #35 RIH with guns and Plug to KOP. pumped down guns at 12.8 bpm @ 4,200 Psi, @ 286 fpm, 882 LT, pumped guns to 10,355' Pulled up and got line tension and set plug @10,310'. Line tension prior to setting plug 1,250 line tension after plug set 1,110, plug set time 75 sec. POOH and perf'ed at (10,315'-318') (10,245'-248') (10,175'-178'), POOH with tools, max pressure for pump down: 4,200, Max rate for pump down 12.8 bpm. Total BBls pumped 101. POOH w/ tools.
23:00	00:00	Frac stg #35

Report Start Date	Report End Date	24hr Activity Summary
12/6/2014	12/7/2014	Frac Stgs 35,36,37,38,39,40 & 41. Perf Stgs 36,37,38,39,40 & 41. Set First kill plug.

Start Time	End Time	Comment
00:00	01:00	Frac Stg #35. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 22 holes open, 818 psi perf friction, 254 psi NWB as per FracPro. 3. Stage treated well with all proppant placed. 4. Had to drop a pump during flush to due to a broken pony rod. Ball Seat Stage Pressures and Rate: 4733 psi @ 15 bpm , 5380 psi Pressure before Seating , 4733 psi Pressure after Seating. WG-36-3.4% (68.2), BC-200-5.1% (8), MO-67-4.5% (3.5), MC S-2510T-4.5% (3.1) Vicon NF-4.6% (10.2), Losurf 300D-4.3% (5.9). FE-2A-4.4% (1.3), BE-9-2.9% (1.2)
01:00	02:30	Plug and Perf: Stage #36 RIH with guns and Plug to KOP. pumped down guns at 12.9 bpm @ 4,150 Psi, @ 308 fpm, 870 LT, pumped guns to 9,925' Pulled up and got line tension and set plug @9,910'. Line tension prior to setting plug 1,160 line tension after plug set 1,020, plug set time 56 sec. POOH and perf'ed at (9,858'-861') (9,797'-800') POOH with tools, max pressure for pump down: 4,150, Max rate for pump down 12.9 bpm. Total BBls pumped 76. POOH w/ tools.
02:30	05:00	Frac stg #36. Halliburton had issues with crosslinker before going to 30/50 sand had to shut down until the issue was resolved. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 18 holes open, 1061 psi perf friction, 374 psi NWB as per FracPro. 3. Could not get crosslinker going and had issues with MO-67 during pad. Shutdown and resolved the issues prior to going to 30/50. 4. Issue was resolved in ~45 mins. 5. 30/50 ran ~10,000 lbs long out of the mover. 6. Stage treated well. Ball Seat Stage Pressures and Rate: 4540 psi @ 15.1 bpm , 4224 psi Pressure before Seating , 4540 psi Pressure after Seating WG-36-26.6% (494.9), BC-200-5.1% (8.7), BA-20-3.3% (1.1), MO-67-5.1% (4.4), MC S-2510T-4.3% (3) Losurf 300D-4.3% (6) BE-9-3.9% (1.6)

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
05:00	07:00	Plug and Perf: Stage #37 RIH with guns and Plug to KOP. pumped down guns at 12.3 bpm @ 4,335 Psi, @ 258 fpm, 878 LT, pumped guns to 9,690' Pulled up and got line tension and set plug @9,740'. Line tension prior to setting plug 1,178 line tension after plug set 1,050, plug set time 76 sec. POOH and perf'ed at (9,672'-675') (9,600'-603')(9,521'-524') POOH with tools, max pressure for pump down: 4,335, Max rate for pump down 12.3 bpm. Total BBls pumped 77. POOH w/ tools. All shots fired. Drop ball & turn over to Frac.
07:00	09:00	Frac Stg #37. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 20 holes open, 867 psi perf friction, 136 psi NWB as per FracPro. 3. 20 cups 3700 CFT Protechnics tracer. WG-36-7.8% (140), BC-200-4.3% (6.8), BA-20-4.3% (1.4), MO-67-3.9% (3.1), MC S-2510T-4.2% (2.8) Vicon NF-4.2% (9.2), Losurf 300D-4.2% (5.6) BE-9-3.2% (1.3)
09:00	10:30	: Plug and Perf: Stage #38 RIH with guns and Plug to KOP. pumped down guns at 12.3 bpm @ 4,080 Psi, @ 252 fpm, 920 LT, pumped guns to 9,510' Pulled up and got line tension and set plug @9,490'. Line tension prior to setting plug 1,168 line tension after plug set 1,017, plug set time 46 sec. POOH and perf'ed at (9,441'-444') (9,366'-369')(9,290'-293') POOH with tools, max pressure for pump down: 4,080, Max rate for pump down 12.4 bpm. Total BBls pumped 62. POOH w/ tools. All shots fired. Shut HCR.
10:30	11:00	Grease Frac Tree.
11:00	12:30	Frac stg #38. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 25 holes open, 767 psi perf friction, 556 psi NWB as per FracPro. 3. 20 cups 3900 CFT Protechnics tracer. WG-36-13.8% (232.8), BC-200-4% (6.3), FR-76-5.3% (1.4),BA-20-4.1% (1.4), CL-31-5.9% (1.4) MO-67-3.4% (2.7), MC S-2510T-4.9% (3.3) Vicon NF-3.8% (8.4), Losurf 300D-4.9% (6.7) FE-2A-13.1% (3.4), Cat 3/4-4.8% (1), BE-9-3.4% (1.4)
12:30	14:00	Plug and Perf: Stage #39 RIH with guns and Plug to KOP. pumped down guns at 11.8 bpm @ 4,041 Psi, @ 245 fpm, 929 LT, pumped guns to 9,250' Pulled up and got line tension and set plug @9,238'. Line tension prior to setting plug 1,222 line tension after plug set 1,042, plug set time 60 sec. POOH and perf'ed at (9,210'-213') (9,137'-140')(9,059'-062') POOH with tools, max pressure for pump down: 4,041, Max rate for pump down 11.8 bpm. Total BBls pumped 48. POOH w/ tools. All shots fired. Drop ball & turn over to Frac.
14:00	16:00	Frac stg #39. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 27 holes open, 585 psi perf friction, 112 psi NWB as per FracPro. 3. 22 cups CFT 3900 Protechnics tracer. WG-36-7.9% (134.9), CL-31-6.5% (1.6) MO-67-2.9% (2.4), Vicon NF-4.3% (9.5), Losurf 300D-4.3% (5.8) Cat 3/4-6.7% (1.4), BE-9-4.7% (1.9)
16:00	17:30	Plug and Perf: Stage #40 RIH with guns and Plug to KOP. pumped down guns at 11 bpm @ 3,932 Psi, @ 248 fpm, 853 LT, pumped guns to 9,055' Pulled up and got line tension and set plug @9,020'. Line tension prior to setting plug 1,192 line tension after plug set 1,046, plug set time 24 sec. POOH and perf'ed at (8,979'-982') (8,904'-907')(8,828'-831') POOH with tools, max pressure for pump down: 3,932, Max rate for pump down 11 bpm. Total BBls pumped 37. POOH w/ tools. All shots fired. Drop ball & turn over to Frac.

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
17:30	19:30	Frac stg #40. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 25 holes open, 776 psi perf friction, 279 psi NWB as per FracPro. 3. Stage went well with all proppant. WG-36-18.4% (316.2), BC-200-4.6% (7.4), BA-20-4.7% (1.6), MO-67-4.1% (3.3), MC S-2510T-4.2% (2.8) Vicon NF-4.3% (9.5), Losurf 300D-4.2% (5.6). BE-9-4.8% (1.9)
19:30	21:00	Plug and Perf: Stage #41 RIH with guns and Plug to KOP. pumped down guns at 12 bpm @ 3,660 Psi, @ 260 fpm, 960 LT, pumped guns to 8,753' Pulled up and got line tension and set plug @ 8,776'. Line tension prior to setting plug 1,190 line tension after plug set 1,040, plug set time 81 sec. POOH and perf'ed at (8,748'-751') (8,673'-676')(8,612'-615') POOH with tools, max pressure for pump down: 3,660, Max rate for pump down 12 bpm. Total BBls pumped 34. POOH w/ tools.
21:00	22:45	Frac Stg #41. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 23 holes open, 738 psi perf friction, 219 psi NWB as per FracPro. 3. 100 Mesh emptied out late. 4. Lost prime to the blender during flush. Reduced rate to alleviate issue and successfully flush the well. Ball Seat Stage Pressures and Rate: 4166 psi @ 15.3 bpm , 4013 psi Pressure before Seating , 4166 psi Pressure after Seating. WG-36-29.7% (485.4), BC-200-5% (7.9), FR-76-4.1% (1),BA-20-4.1% (1.3), MC S-2510T-4.3% (2.8) Vicon NF-4.3% (9.2), Losurf 300D-4.9% (6.4). FE-2A-4.6% (1.2), BE-9-3.7% (1.5)
22:45	00:00	First kill plug is set at 7,930'

Report Start Date	Report End Date	24hr Activity Summary
12/7/2014	12/8/2014	Finished up the fracs. RD frac and W/L equipment and ND frac stack and NU BOP stack. Pressure test stack and flowback iron to NFX testing procedures.

Start Time	End Time	Comment
00:00	01:30	Set Second Kill plug at 7,890'
01:30	06:00	RD W/L and Frac Equipment and MOL.
06:00	11:00	Clean up location & move off tanks that are not needed. Level out location.
11:00	15:00	ND frac tree & NU BOPS & night cap on top.
15:00	17:00	Testing BOPS & accumulator as per Newfield procedures 250 low 10K high.
17:00	00:00	Wait on daylights.

Report Start Date	Report End Date	24hr Activity Summary
12/8/2014	12/9/2014	RU Snubbing unit and WOR and all the equipment on location to do the drillout.

Start Time	End Time	Comment
00:00	07:00	Wait on daylights.
07:00	10:00	MIRU WOR
10:00	14:00	MIRU Snub unit
14:00	18:00	Pressure test snub unit as per Newfield's pressure testing Procedures. Test annular to 5K. Spot in Weatherford pump & lines.
18:00	00:00	Finish RU Snubbing unit and WOR equipment.

Report Start Date	Report End Date	24hr Activity Summary
12/9/2014	12/10/2014	RIH with PH-6 Workstring and drill out the two kill plugs.

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
00:00	04:00	Finish RU Snubbing unit and WOR equipment.
04:00	06:00	Snubbing unit has blown two hydraulic fitting.
06:00	17:00	PU BHA. BHA is as follows from bottom to top: Concave Mill (4.625" OD x 1.79'), 2 7/8" ECTD Motor (2.875" OD x 12.00'), Circ Sub (2.875" OD x .750" ID x 0.69'), Dual Flapper (2.875" OD x 1.00" ID x 1.28'), Pup Jt. (2-3/8" x 9.82'), X-Over Sub (2.906" OD x 1.560" ID x 1.13') RN-Nipple (2.906" OD x 1.560" ID x 0.75'). For a total length of 27.64'. PU 256 jts 2-3/8" 5.96# P110 PH6 tbg. Fill tbg every 25 jts. Tag kill plug #2 at 7904' by tbg tally. 14' deeper than WL. Fill WS.
17:00	20:00	RU power swivel. Power swivel is RU on jt 256 2-3/8" 5.96# P110 PH6 tbg. Tag kill plug #2 at 7904' by tbg tally. 14' deeper than WL. We will break circulation and start to drill up the first kill plug.
20:00	00:00	21:06-Tagged First kill plug at 7904' on jt #256, Up weight 53k, down weight 50k, neutral 52. 1750 free torque, 2100 drill torque. WOB: 5-6pts, RPM @ 60-75. 2 bbl in @ 1750psi, 1.5bbl out @ 0psi on full open " choke. 29 minutes to drill plug. Pumped 70bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. 22:06-Tagged Second kill plug at 7,944' on jt #258, Up weight 53k, down weight 50k, neutral 52. 1200 free torque, 2350 drill torque. WOB: 5-6pts, RPM @ 60-75. 2 bbl in @ 1200psi, 2.1bbl out @ 2500psi on 18/64 " choke. 54 minutes to drill plug. Pumped 110bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. 23:00- Pumping a bottoms up here 135bbls.

Report Start Date	Report End Date	24hr Activity Summary
12/10/2014	12/11/2014	Drilled out Frac Plugs 41,40,39,38,37,36,35,34,33,32 & 31

Start Time	End Time	Comment
00:00	02:30	Had to PU 26 jts to get to the first flow through frac plug.
02:30	03:30	02:43-Tagged Frac plug #41 at 8,788' on jt #285 8' out, Up weight 43k, down weight 38k, neutral 41. 3400 free torque, 4100 drill torque. WOB: 5-6pts, RPM @ 60-75. 2 bbl in @ 3400psi, 2.3bbl out @ 2350psi on 22/64 " choke. 21 minutes to drill plug. Pumped 57bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
03:30	06:00	04:28-Tagged Frac plug #40 at 9,032' on jt #293 9' out, Up weight 43k, down weight 38k, neutral 41. 3300 free torque, 3900 drill torque. WOB: 5-6pts, RPM @ 60-75. 2 bbl in @ 3300psi, 2.4bbl out @ 2400psi on 25/64 " choke. 20 minutes to drill plug. Pumped 55bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
06:00	08:00	06:00-Tagged Frac plug #40 at 9,249' on jt #300 with 7' out, Up weight 46k, down weight 40k, neutral 43k. 3500 free torque, 4200 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500psi, 2. bbl out @ 2400 psi on 22/64 " choke. Well head pressure 2300 psi. 37 minutes to drill plug. Pumped 135 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. Circulated 20 minutes while thawing out torq gauge to driller's stand.
08:00	10:00	08:10-Tagged Frac plug #38 at 9,500' on jt #308 with 2' out, Up weight 46k, down weight 40k, neutral 43k. 3300 free torque, 4200 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3300 psi, 2. bbl out @ 2400 psi on 20/64 " choke. Well head pressure 2500 psi. 58 minutes to drill plug. Pumped 112 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
10:00	11:00	09:57-Tagged Frac plug #37 at 9,749' on jt #317 with 29' out, Up weight 46k, down weight 40k, neutral 43k. 3300 free torque, 3600 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3300 psi, 2. bbl out @ 2400 psi on 20/64 " choke. Well head pressure 2500 psi. 37 minutes to drill plug. Pumped 90 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
11:00	12:00	Circulate 165 bbl bottoms up.
12:00	13:00	12:32-Tagged Frac plug #36 at 9,923' on jt #322 with 10' out, Up weight 45k, down weight 39k, neutral 42k. 3800 free torque, 4500 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3800 psi, 2. bbl out @ 2500 psi on 18/64 " choke. Well head pressure 2500 psi. 35 minutes to drill plug. Pumped 76 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
13:00	14:00	13:30-Tagged Frac plug #35 at 10,141' on jt #329 with 7' out, Up weight 45k, down weight 39k, neutral 42k. 3400 free torque, 3600 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3400 psi, 2. bbl out @ 2500 psi on 20/64 " choke. Well head pressure 2500 psi. 46 minutes to drill plug. Pumped 105 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
14:00	17:00	Wash 7 jts sand to plug circulating 20 bbl each jt. 16:34-Tagged Frac plug #34 at 10,352' on jt #336 with 11' out, Up weight 45k, down weight 40k, neutral 42k. 3500 free torque, 3600 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500 psi, 2.5 bbl out @ 2400 psi on 27/64 " choke. Well head pressure 2500 psi. 25 minutes to drill plug. Pumped 62 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
17:00	19:00	Circulate 195 bbl bottoms up.
19:00	20:30	19:41-Tagged Frac plug #33 at 10,559' on jt #343 20' out, Up weight 45k, down weight 40k, neutral 42. 3800 free torque, 4100 drill torque. WOB: 5-6pts, RPM @ 60-75. 2 bbl in @ 3800psi, 2.4bbl out @ 2350psi on 21/64 "choke 31 minutes to drill plug. Pumped 69bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
20:30	22:30	21:44-Tagged Frac plug #32 at 10,765' on jt #350 29' out, We washed 70' of sand to get to the plug. Up weight 45k, down weight 40k, neutral 42k. 3800 free torque, 4100 drill torque. WOB: 5-6pts, RPM @ 60-75. 2 bbl in @ 3800psi, 2.4bbl out @ 2400psi on 21/64 "choke 31 minutes to drill plug. Pumped 82bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
22:30	23:00	Circulate 70 bbl while Nabors has to fix the drill line so we are goking to pump a bottoms up while the y fix the drill line.
23:00	00:00	Washed two joints of sand.

Report Start Date	Report End Date	24hr Activity Summary
12/11/2014	12/12/2014	Drilled up Frac plugs 30,29,28,27,26,25,24,23,22,21 & 20

Start Time	End Time	Comment
00:00	01:30	00:53-Tagged Frac plug #31 at 10,987' on jt #357 20' out, We washed 222' of sand to get to the plug. Up weight 45k, down weight 40k, neutral 42k. 3600 free torque, 4000 drill torque. WOB: 5-6pts, RPM @ 60-75. 2 bbl in @ 3600psi, 2.7bbl out @ 2400psi on 23/64 "choke 16 minutes to drill plug. Pumped 36bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. We are going to pump a bottoms up here.
01:30	03:00	Pump a bootoms up at 210bbls.

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
03:00	04:30	03:50-Tagged Frac plug #30 at 11,203' on jt #364 15' out, Up weight 45k, down weight 40k, neutral 42k. 3700 free torque, 4100 drill torque. WOB: 5-6pts, RPM @ 60-75. 2 bbl in @ 3700psi, 2.6bbl out @ 2450psi on 23/64 "choke 33 minutes to drill plug. Pumped 74bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
04:30	06:30	Sand-circulate every jt down to plug. 05:56-Tagged Frac plug #29 at 11,449' on jt #372 with 11' out, Up weight 45k, down weight 39k, neutral 42k. 3600 free torque, 4200 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3600 psi, 2.4 bbl out @ 2400 psi on 19/64 " choke. Well head pressure 2500 psi. 18 minutes to drill plug. Pumped 40 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
06:30	07:45	0705-Tagged Frac plug #28 at 11,635' on jt #378 with 18' out, Up weight 45k, down weight 39k, neutral 42k. 3600 free torque, 4200 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3700 psi, 2.5 bbl out @ 2400 psi on 19/64 " choke. Well head pressure 2500 psi. 35 minutes to drill plug. Pumped 75 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
07:45	09:15	08:28-Tagged Frac plug #27 at 11,841' on jt #385 with 27' out, Up weight 45k, down weight 39k, neutral 42k. 3500 free torque, 4200 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500 psi, 2.4 bbl out @ 2400 psi on 19/64 " choke. Well head pressure 2500 psi. 36 minutes to drill plug. Pumped 90 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep
09:15	10:30	09:53-Tagged Frac plug #26 at 12,015' on jt #390 with 4' out, Up weight 45k, down weight 39k, neutral 42k. 3500 free torque, 4300 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500 psi, 2.4 bbl out @ 2400 psi on 20/64 " choke. Well head pressure 2500 psi. 27 minutes to drill plug. Pumped 73 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
10:30	12:30	Circulate 240 bbl bottoms up.
12:30	14:15	14:15-Tagged Frac plug #25 at 12,337' on jt #401 with 20' out, Up weight 47k, down weight 40k, neutral 43k. 3600 free torque, 4200 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3600 psi, 2.3 bbl out @ 2300 psi on 20/64 " choke. Well head pressure 2400 psi. 13 minutes to drill plug. Pumped 52 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
14:15	15:30	15:30-Tagged Frac plug #24 at 12,477' on jt #405 with 3' out, Up weight 47k, down weight 40k, neutral 43k. 3700 free torque, 4100 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3700 psi, 2.3 bbl out @ 2300 psi on 22/64 " choke. Well head pressure 2400 psi. 19 minutes to drill plug. Pumped 56 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
15:30	17:00	17:05-Tagged Frac plug #23 at 12,716' on jt #413 with 10' out, Up weight 47k, down weight 40k, neutral 43k. 3500 free torque, 4200 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500 psi, 2.4 bbl out @ 2400 psi on 21/64 " choke. Well head pressure 2500 psi. 15 minutes to drill plug. Pumped 38 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
17:00	19:00	18:25-Tagged Frac plug #22 at 12,944' on jt #421 with 28' out, Up weight 46k, down weight 38k, neutral 41k. 3600 free torque, 4200 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3600 psi, 2.3bbl out @ 2350 psi on 19/64 " choke 23 minutes to drill plug. Pumped 55 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
19:00	20:30	19:27-Tagged Frac plug #21 at 13,169' on jt #428 with 19' out, Up weight 46k, down weight 38k, neutral 41k. 3400 free torque, 4200 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3400 psi, 2.8bbl out @ 2300 psi on 17/64 " choke 32 minutes to drill plug. Pumped 69 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. We are going to pump a bottoms up here of 260bbls.
20:30	22:30	Pumped a bottoms up of 260bbls
22:30	23:30	22:40-Tagged Frac plug #20 at 13,403' on jt #435 with 3' out, Up weight 46k, down weight 38k, neutral 41k. 3700 free torque, 4000 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3700 psi, 2.3bbl out @ 2400 psi on 17/64 " choke 26 minutes to drill plug. Pumped 67 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
23:30	00:00	PU tbg to get down to Frac plug #19.

Report Start Date	Report End Date	24hr Activity Summary
12/12/2014	12/13/2014	Drilled out frac plugs 19,18,17,16,15,14,13,12,11,10,9,8,7 & 6

Start Time	End Time	Comment
00:00	00:30	22:40-Tagged Frac plug #20 at 13,403' on jt #435 with 3' out, Up weight 46k, down weight 38k, neutral 41k. 3700 free torque, 4000 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3700 psi, 2.3bbl out @ 2400 psi on 17/64 " choke 26 minutes to drill plug. Pumped 67 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
00:30	04:00	01:05-Tagged Frac plug #18 at 13,880' on jt #451 with 15' out, Up weight 46k, down weight 38k, neutral 41k. 3400 free torque, 4000 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3400 psi, 2.3bbl out @ 2200 psi on 19/64"choke 30 minutes to drill plug. Pumped 75 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. 02:13-Tagged Frac plug #17 at 14,094' on jt #458 with 16' out, Up weight 46k, down weight 38k, neutral 41k. 3400 free torque, 4000 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3400 psi, 2.1bbl out @ 2325 psi on 17/64"choke 33 minutes to drill plug. Pumped 62 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
04:00	05:30	04:10-Tagged Frac plug #16 at 14,334' on jt #466 with 22' out, Up weight 46k, down weight 38k, neutral 41k. 3400 free torque, 4000 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3400 psi, 2.3bbl out @ 2400 psi on 17/64"choke 28 minutes to drill plug. Pumped 64 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. We are going to pump a bottoms up here of 280bbls.
05:30	07:00	Circulate 280 bbl bottoms up.
07:00	08:00	07:38-Tagged Frac plug #15 at 4,555' on jt #473 with 16' out, Up weight 50k, down weight 38k, neutral 43k. 3500 free torque, 4200 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500 psi, 2.1 bbl out @ 2400 psi on 22/64 " choke. Well head pressure 2500 psi. 36 minutes to drill plug. Pumped 83 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep
08:00	10:00	09:37-Tagged Frac plug #14 at 14,800' on jt #481 with 17' out, Up weight 50k, down weight 38k, neutral 43k. 3500 free torque, 4100 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500 psi, 2.3 bbl out @ 2300 psi on 22/64 " choke. Well head pressure 2500 psi. 14 minutes to drill plug. Pumped 42 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
10:00	11:15	Pump 5 gal POP. 10:43-Tagged Frac plug #13 at 15,016' on jt #488 with 16' out, Up weight 50k, down weight 38k, neutral 43k. 3500 free torque, 4200 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500 psi, 2.5 bbl out @ 2400 psi on 23/64 " choke. Well head pressure 2500 psi. 27 minutes to drill plug. Pumped 61 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep
11:15	12:15	12:43-Tagged Frac plug #12 at 15,244' on jt #495 with 4' out, Up weight 50k, down weight 38k, neutral 43k. 4000 free torque, 4500 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 4000 psi, 2.4 bbl out @ 2200 psi on 23/64 " choke. Well head pressure 2400 psi. 19 minutes to drill plug. Pumped 47 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
12:15	13:15	13:40-Tagged Frac plug #11 at 15,437' on jt #502 with 26' out, Up weight 50k, down weight 38k, neutral 43k. 3500 free torque, 4100 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500 psi, 2.5 bbl out @ 2200 psi on 23/64 " choke. Well head pressure 2400 psi. 31 minutes to drill plug. Pumped 62 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
13:15	15:15	Circulate 280 bbl bottoms up
15:15	17:30	16:58-Tagged Frac plug #10 at 15,677' on jt #509 with 7' out, Up weight 50k, down weight 38k, neutral 43k. 3500 free torque, 4200 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500 psi, 2.1 bbl out @ 2300 psi on 21/64 " choke. Well head pressure 2400 psi. 25 minutes to drill plug. Pumped 59 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
17:30	20:30	18:31-Tagged Frac plug #9 at 16,000' on jt #520 with 16' out, Up weight 50k, down weight 38k, neutral 43k. 3500 free torque, 4000 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3500 psi, 2.5 bbl out @ 2400 psi on 17/64 " choke. Well head pressure 2400 psi. 40 minutes to drill plug. Pumped 89 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. 20:12-Tagged Frac plug #8 at 16,173' on jt #526 with 27' out, Up weight 50k, down weight 38k, neutral 43k. 3500 free torque, 4000 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3500 psi, 2.3 bbl out @ 2400 psi on 16/64 " choke. Well head pressure 2400 psi. 18 minutes to drill plug. Pumped 47 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
20:30	23:00	21:03-Tagged Frac plug #7 at 16,343' on jt #5310 with 11' out, Up weight 50k, down weight 38k, neutral 43k. 3600 free torque, 4000 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3600 psi, 2.0 bbl out @ 2300 psi on 17/64 " choke. Well head pressure 2300 psi. 22 minutes to drill plug. Pumped 46 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. 22:03-Tagged Frac plug #6 at 16,553' on jt #538 with 16' out, Up weight 50k, down weight 38k, neutral 43k. 3900 free torque, 4600 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3900 psi, 2.30 bbl out @ 2300 psi on 17/64 " choke. Well head pressure 2300 psi. 34 minutes to drill plug. Pumped 76 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. We are pumping a bottoms up here 330bbls.
23:00	00:00	We are pumping a bottoms up here 330bbls.

Report Start Date	Report End Date	24hr Activity Summary
12/13/2014	12/14/2014	

Start Time	End Time	Comment
00:00	01:30	We are done pumping a bottoms up here at 16,553' on jt #538 330bbls.

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
01:30	03:30	01:54-Tagged Frac plug #5 at 16,761' on jt #545 with 23' out, Up weight 50k, down weight 38k, neutral 43k. 3800 free torque, 4300 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3800 psi, 2.5 bbl out @ 2375 psi on 17/64 " choke. Well head pressure 2375 psi. 31 minutes to drill plug. Pumped 72 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. 02:58-Tagged Frac plug #4 at 16,973' on jt #552 with 26' out, Up weight 50k, down weight 38k, neutral 43k. 3700 free torque, 4300 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3700 psi, 2.4 bbl out @ 2300 psi on 18/64 " choke. Well head pressure 2300 psi. 47 minutes to drill plug. Pumped 100 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
03:30	05:00	04:28-Tagged Frac plug #3 at 17,128' on jt #557 with 24' out, Up weight 50k, down weight 38k, neutral 43k. 3800 free torque, 4300 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3800 psi, 2.2 bbl out @ 2350 psi on 17/64 " choke. Well head pressure 2350 psi. 14 minutes to drill plug. Pumped 35 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. Washed sand from frac plug #4 to frac plug #3 we will pump 60 extra bbls here to get the sand way up above us.
05:00	07:00	Circulate 300 bbl bottoms up.
07:00	08:00	07:36-Tagged Frac plug #2 at 17,319' on jt #563 with 17' out, Up weight 57k, down weight 38k, neutral 43k. 3500 free torque, 4100 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500 psi, 2.5 bbl out @ 2400 psi on 18/64 " choke. Well head pressure 2500 psi. 35 minutes to drill plug. Pumped 87 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
08:00	09:00	Clean out to 17,473' on jt #576.
09:00	14:15	Pump 10 bbl sweep, 20 bbl spacer, then 10 bbl sweep. Circulate 750 bbl (2.5 times bottoms up).
14:15	18:00	SIP 2400 psi. Swivel 10 jts OH. Tie back swivel. LD 2-3/8" WS.
18:00	23:00	Con't LD 2 3/8" tbg. With 319 jts of 2 3/8" PH-6 tbg on the ground stop and get ready to circulate bottoms up. EOT @8366'
23:00	00:00	Get good jt count on tbg. RU power swivel to circulate bottoms up.

Report Start Date	Report End Date	24hr Activity Summary
12/14/2014	12/15/2014	Continue the drill out to PBTD. POOH LD tbg.

Start Time	End Time	Comment
00:00	02:00	Circulated 180 bbls bottoms up with two 12 bbl sweeps 20 bbls apart. EOT @8366'.
02:00	03:00	RD power swivel & rack out. Pickle pumps & flowback iron.
03:00	06:00	Continue to LD 2 3/8" 5.95# PH-6 tbg. There is 460 jts out 130 jts in the hole putting EOT @4028'. Shut in & secure well.
06:00	07:30	Wait for day light to snub out.
07:30	14:30	Finish laying down WS with rig assist snubbing unit. LD BHA. Secure well.
14:30	20:30	Change out pipe rams.
20:30	22:30	Test BOP stack & snub unit to Newfields testing Proceudres.

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
22:30	00:00	SDFN & wait on daylights.

Report Start Date	Report End Date	24hr Activity Summary
12/15/2014	12/16/2014	Snub WS out of hole. PUMU production string & RIH.

Start Time	End Time	Comment
00:00	07:00	SDFN & secure well. Wait on daylights.
07:00	08:30	PU 2-7/8" notched collar (3.688" OD x 3.00" ID x 0.44' L), 2-7/8" x 2.09' pup jt, 2-7/8" x 4.13' perf pup, 10K ceramic burst disc (3.688" OD x 2.441" ID x 0.78' L), 2-7/8" TUBAL gauge (3.600" OD x 2.200" ID x 3.61' L) 1 jt 2 -7/8" 6.5# EUE 8rd L-80 tbg, 2-7/8" x 2.313" ID x 1.20'L X-nipple. Equalize pressure in BOP stack and open blind/shears and HCR valve. Snub -7/8" 6.5# EUE 8rd L-80 tbg IH.
08:30	16:30	Snub in the hole W/15 jts of 2 7/8" 6.5# EUE tbg & BHA & fill tbg. Snub in the hole W/115 jts of 2 7/8" L-80 6.5# tbg filling every 25 jts.
16:30	20:00	RIH on elevators W/111 jts of 2 7/8" 6.5# EUE tbg filling every 25 jts. To get 2-7/8" notched collar (3.688" OD x 3.00" ID x 0.44' L), 2-7/8" x 2.09' pup jt, 2-7/8" x 4.13' perf pup, 10K ceramic burst disc (3.688" OD x 2.441" ID x 0.78' L), 2-7/8" TUBAL gauge (3.600" OD x 2.200" ID x 3.61' L) 1 jt 2-7/8" 6.5# EUE 8rd L-80 tbg, 2-7/8" x 2.313" ID x 1.20'L X-nipple, 140 jts 2 7/8" L-80 6.5# tbg.
20:00	22:00	Pump 30 bbls of water @120 deg to do a bowl wash & get ready to land tbg on hanger.
22:00	23:00	PU landing joint and hanger. Land well on hanger. Bleed off pressure in BOP stack. Pressure test hanger per Newfield's procedures.
23:00	00:00	LD landing joints & RD stairs and tbg equipment in basket.

Report Start Date	Report End Date	24hr Activity Summary
12/16/2014	12/17/2014	PUMU production string & RIH.

Start Time	End Time	Comment
00:00	04:00	RD snub unit & spools
04:00	05:00	ND BOP stack & HCR valve.
05:00	06:00	NU Production tree
06:00	07:30	Wait on daylight.
07:30	09:30	RDMO WOR,
09:30	10:15	POP well at 10:15 AM and turn over to production. Pumped 90 bbls water down tubing and rupture disc, (two tbg volumes), Disc ruptured at 3,000 psi,
10:15	18:00	Clean location and release equipment.
18:00	00:00	Shut down for night

Form 3160-4
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2014

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: 1420H626176

1a. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other: _____

6. If Indian, Allottee or Tribe Name: UINTAH AND OURAY
7. Unit or CA Agreement Name and No.:

2. Name of Operator: NEWFIELD PRODUCTION COMPANY
8. Lease Name and Well No.: POWWITCH 15-13-12-3-2WB

3. Address: ROUTE #3 BOX 3630, MYTON, UT 84052
3a. Phone No. *(include area code)*: Ph:435-646-3721
9. API Well No.: 43-013-51942

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**
10. Field and Pool or Exploratory: NATURAL BUTTES

At surface: 75' FNL 2332' FEL (NW/NE) SEC 24 T3S R2W
11. Sec., T., R., M., on Block and Survey or Area: SEC 24 T3S R2W

At top prod. interval reported below: 756' FSL 1835' FEL (NW/NE) SEC 13 T3S R2W

At total depth: 589' FNL 1975' FEL (NW/NE) SEC 12 T3S R2W

12. County or Parish: DUCHESNE
13. State: UT

14. Date Spudded: 09/21/2014
15. Date T.D. Reached: 10/28/2014
16. Date Completed: ☐ D & A ☑ Ready to Prod. 12/17/2014
17. Elevations (DF, RKB, RT, GL)*: 5109' GL 5135' KB

18. Total Depth: MD 17967 TVD 10071
19. Plug Back T.D.: MD 17920 TVD
20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
DUAL IND GRD, SP, COMP. NEUTRON, GR, CALIPER, CMT BOND

22. Was well cored? ☐ No ☐ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☑ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
19"	13-3/8" J-55	54.50	0'	1663'		1091 CLASS G			
12-5/8"	9-5/8" N-80	40	0'	8014'		1025 Versacem			
						590Expandacem			
8-7/8"	5-1/2" P-110	20	0'	17,967		1265 Tergovis			
						2090 Elasticem			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT@7945'	XN@7900'						

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Wasatch	8612'	17,378	8612' - 17378'	0.38	1062	
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
8612' - 17378'	Frac w/ 8,500,419#s of proppant sand in 147,387 bbls of clean fluid, in 41 stages.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
12/19/14	12/29/14	24	→	1019	627	2407			Flowing

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					PRODUCING

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					

*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

29. Disposition of Gas *(Solid, used for fuel, vented, etc.)*

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GARDEN GULCH MEMBER	6073'
				GARDEN GULCH 2	6469'
				DOUGLAS CREEK	7171'
				B LIMESTON	7754'
				CASTLE PEAK	8044'
				UTELAND BUTTE	8330'

32. Additional remarks (include plugging procedure):

Bottom Producint Interval:
1060' FNL 1951' FEL (NW/NE) SEC 12 T3S R2W

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☑ Directional Survey
☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☑ Other: Drilling daily activity

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* Heather Calder Title Regulatory Technician

Signature Heather Calder Date 01/20/2015

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Powvitch 15-13-12-3-2WB	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013519420000	NWNE 75FNL 2332FEL SEC24 T3S R2W MERU	UINTA CB - BAR F HORZ	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500358785	Duchesne	Utah	9/21/2014 06:00	10/28/2014 00:00

Actual Deviation Survey	Wellbore Name	Parent Wellbore	Job	VS Dir (°)	Profile Type	Kick Off Depth (ftKB)
Actual, Proposed? No	Original Hole	Original Hole	Drilling - Original, 9/21/2014 06:00			7,069

Date	Definitive?	Description	Proposed?
9/16/2014	No	Actual	No

MD Tie In (ftKB)	TVDTie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (ft)	EWTie In (ft)

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
9/16/2014	26	0.00	0.00	26	0	0	0	0.00	0.00	0.00	0.00	MWD	Payzone
10/5/2014	77	31.43	15.93	75	13	13	4	61.57	61.57	31.20	13.65	MWD	Weatherford
9/16/2014	116	0.18	120.56	112	23	23	7	80.81	-80.23	268.63	24.06	MWD	Payzone
9/16/2014	144	0.26	128.30	140	23	23	7	0.30	0.29	27.64	24.16	MWD	Payzone
9/16/2014	174	0.44	158.84	170	23	23	7	0.84	0.60	101.80	24.34	MWD	Payzone
9/16/2014	205	0.44	173.87	201	23	23	7	0.37	0.00	48.48	24.58	MWD	Payzone
9/16/2014	233	0.70	162.35	229	23	22	7	1.01	0.93	-41.14	24.86	MWD	Payzone
9/16/2014	260	0.31	172.11	256	22	22	7	1.47	-1.44	36.15	25.09	MWD	Payzone
9/16/2014	288	0.70	162.75	284	22	22	7	1.42	1.39	-33.43	25.34	MWD	Payzone
9/16/2014	317	0.70	181.78	313	22	22	7	0.80	0.00	65.62	25.69	MWD	Payzone
9/16/2014	346	0.97	176.81	342	21	21	7	0.96	0.93	-17.14	26.11	MWD	Payzone
9/16/2014	373	1.05	175.80	369	21	21	7	0.30	0.30	-3.74	26.59	MWD	Payzone
9/16/2014	401	0.83	187.53	397	20	20	7	1.04	-0.79	41.89	27.04	MWD	Payzone
9/16/2014	431	1.32	173.47	427	20	20	7	1.84	1.63	-46.87	27.60	MWD	Payzone
9/16/2014	459	1.49	177.03	455	19	19	7	0.68	0.61	12.71	28.29	MWD	Payzone
9/16/2014	493	1.32	175.36	489	18	18	7	0.51	-0.50	-4.91	29.12	MWD	Payzone
9/16/2014	523	1.45	181.56	519	18	17	7	0.66	0.43	20.67	29.85	MWD	Payzone
9/16/2014	553	1.49	182.22	548	17	17	7	0.14	0.13	2.20	30.62	MWD	Payzone
9/16/2014	583	1.36	183.01	578	16	16	7	0.44	-0.43	2.63	31.36	MWD	Payzone
9/16/2014	613	1.32	169.60	608	15	15	7	1.05	-0.13	-44.70	32.06	MWD	Payzone
9/16/2014	643	1.31	169.35	638	15	15	7	0.04	-0.03	-0.83	32.75	MWD	Payzone
9/16/2014	673	0.97	163.76	668	14	14	8	1.19	-1.13	-18.63	33.34	MWD	Payzone
9/16/2014	703	0.88	156.60	698	14	14	8	0.49	-0.30	-23.87	33.83	MWD	Payzone
9/16/2014	733	0.97	151.63	728	13	13	8	0.40	0.30	-16.57	34.31	MWD	Payzone
9/16/2014	763	0.85	139.23	758	13	13	8	0.77	-0.40	-41.33	34.78	MWD	Payzone
9/16/2014	793	0.75	120.96	788	13	12	8	0.91	-0.33	-60.90	35.20	MWD	Payzone
9/16/2014	823	0.83	113.88	818	13	12	9	0.42	0.27	-23.60	35.61	MWD	Payzone
9/16/2014	853	0.97	94.59	848	12	12	9	1.11	0.47	-64.30	36.07	MWD	Payzone
9/16/2014	883	1.05	94.24	878	12	12	10	0.27	0.27	-1.17	36.60	MWD	Payzone
9/16/2014	913	1.27	87.92	908	12	12	10	0.85	0.73	-21.07	37.21	MWD	Payzone
9/16/2014	943	1.71	89.36	938	12	12	11	1.47	1.47	4.80	37.99	MWD	Payzone
9/17/2014	973	1.80	93.93	968	12	12	12	0.55	0.30	15.23	38.91	MWD	Payzone
9/17/2014	1,003	1.89	97.71	998	12	12	13	0.50	0.30	12.60	39.87	MWD	Payzone
9/17/2014	1,033	1.76	94.81	1,028	12	12	14	0.53	-0.43	-9.67	40.83	MWD	Payzone
9/17/2014	1,063	1.36	88.57	1,058	12	12	15	1.45	-1.33	-20.80	41.64	MWD	Payzone
9/17/2014	1,093	1.54	91.21	1,088	12	12	16	0.64	0.60	8.80	42.40	MWD	Payzone
9/17/2014	1,123	1.45	86.20	1,118	12	12	16	0.53	-0.30	-16.70	43.18	MWD	Payzone
9/17/2014	1,153	1.54	80.53	1,148	13	12	17	0.58	0.30	-18.90	43.97	MWD	Payzone
9/17/2014	1,183	1.14	87.38	1,178	13	12	18	1.43	-1.33	22.83	44.67	MWD	Payzone
9/17/2014	1,213	1.01	68.44	1,208	13	12	18	1.25	-0.43	-63.13	45.22	MWD	Payzone
9/17/2014	1,243	0.83	64.80	1,238	13	12	19	0.63	-0.60	-12.13	45.70	MWD	Payzone
9/17/2014	1,273	0.79	85.58	1,268	13	12	19	0.98	-0.13	69.27	46.12	MWD	Payzone
9/17/2014	1,303	0.70	74.64	1,298	13	12	20	0.56	-0.30	-36.47	46.51	MWD	Payzone
9/17/2014	1,333	0.69	77.11	1,328	13	13	20	0.11	-0.03	8.23	46.87	MWD	Payzone
9/17/2014	1,363	0.40	80.62	1,358	13	13	20	0.97	-0.97	11.70	47.16	MWD	Payzone
9/17/2014	1,393	0.66	86.11	1,388	13	13	21	0.88	0.87	18.30	47.44	MWD	Payzone
9/17/2014	1,423	0.70	73.67	1,418	13	13	21	0.51	0.13	-41.47	47.79	MWD	Payzone
9/17/2014	1,453	0.79	99.12	1,448	13	13	21	1.13	0.30	84.83	48.17	MWD	Payzone
9/17/2014	1,483	0.53	102.02	1,478	13	13	22	0.87	-0.87	9.67	48.52	MWD	Payzone

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Powvitch 15-13-12-3-2WB	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
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Well RC	County	State/Province	Spud Date	Final Rig Release Date
500358785	Duchesne	Utah	9/21/2014 06:00	10/28/2014 00:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
9/17/2014	1,513	1.05	104.08	1,508	13	13	22	1.74	1.73	6.87	48.93	MWD	Payzone
9/17/2014	1,543	1.23	99.42	1,538	13	12	23	0.67	0.60	-15.53	49.52	MWD	Payzone
9/17/2014	1,573	1.36	97.53	1,568	13	12	23	0.46	0.43	-6.30	50.20	MWD	Payzone
9/17/2014	1,586	1.23	90.99	1,581	13	12	24	1.51	-1.00	-50.31	50.50	MWD	Payzone
9/27/2014	1,707	1.72	96.88	1,702	13	12	27	0.42	0.40	4.87	53.61	MWD	Weatherford
9/27/2014	1,770	1.98	91.26	1,765	13	12	29	0.50	0.41	-8.92	55.64	MWD	Weatherford
9/27/2014	1,864	2.05	96.50	1,859	13	12	32	0.21	0.07	5.57	58.94	MWD	Weatherford
9/27/2014	1,959	2.22	92.93	1,954	13	11	36	0.23	0.18	-3.76	62.48	MWD	Weatherford
9/27/2014	2,053	2.14	98.87	2,048	12	11	39	0.25	-0.09	6.32	66.05	MWD	Weatherford
9/27/2014	2,147	2.22	100.16	2,142	12	11	43	0.10	0.09	1.37	69.62	MWD	Weatherford
9/27/2014	2,242	2.07	96.11	2,237	12	10	46	0.22	-0.16	-4.26	73.18	MWD	Weatherford
9/27/2014	2,336	2.01	96.81	2,331	11	10	49	0.07	-0.06	0.74	76.52	MWD	Weatherford
9/27/2014	2,431	1.94	92.75	2,426	11	9	53	0.16	-0.07	-4.27	79.80	MWD	Weatherford
9/27/2014	2,525	2.03	92.66	2,520	11	9	56	0.10	0.10	-0.10	83.05	MWD	Weatherford
9/27/2014	2,619	1.96	92.81	2,614	11	9	59	0.07	-0.07	0.16	86.32	MWD	Weatherford
9/28/2014	2,714	2.01	87.52	2,709	11	9	63	0.20	0.05	-5.57	89.61	MWD	Weatherford
9/28/2014	2,808	2.06	90.68	2,803	11	9	66	0.13	0.05	3.36	92.95	MWD	Weatherford
9/28/2014	2,903	2.02	92.14	2,897	11	9	69	0.07	-0.04	1.54	96.33	MWD	Weatherford
9/28/2014	2,998	1.79	92.33	2,992	11	9	72	0.24	-0.24	0.20	99.49	MWD	Weatherford
9/28/2014	3,092	1.74	91.46	3,086	11	9	75	0.06	-0.05	-0.93	102.38	MWD	Weatherford
9/28/2014	3,187	1.12	94.91	3,181	11	9	78	0.66	-0.65	3.63	104.75	MWD	Weatherford
9/28/2014	3,281	0.74	105.65	3,275	11	8	79	0.44	-0.40	11.43	106.27	MWD	Weatherford
9/28/2014	3,376	0.62	67.43	3,370	11	8	80	0.48	-0.13	-40.23	107.34	MWD	Weatherford
9/28/2014	3,469	0.39	103.38	3,463	11	9	81	0.41	-0.25	38.66	108.12	MWD	Weatherford
9/28/2014	3,564	0.78	92.55	3,558	11	8	82	0.42	0.41	-11.40	109.08	MWD	Weatherford
9/28/2014	3,658	0.46	134.15	3,652	11	8	83	0.57	-0.34	44.26	110.04	MWD	Weatherford
9/28/2014	3,753	0.68	163.45	3,747	10	7	83	0.38	0.23	30.84	110.96	MWD	Weatherford
9/28/2014	3,847	0.79	165.59	3,841	9	6	84	0.12	0.12	2.28	112.16	MWD	Weatherford
9/28/2014	3,941	1.23	177.92	3,935	8	5	84	0.52	0.47	13.12	113.81	MWD	Weatherford
9/28/2014	4,036	1.49	175.79	4,030	5	2	84	0.28	0.27	-2.24	116.06	MWD	Weatherford
9/28/2014	4,130	1.62	186.02	4,124	3	0	84	0.33	0.14	10.88	118.60	MWD	Weatherford
9/28/2014	4,225	1.96	186.60	4,219	0	-3	84	0.36	0.36	0.61	121.57	MWD	Weatherford
9/28/2014	4,319	1.92	188.86	4,313	-3	-6	83	0.09	-0.04	2.40	124.75	MWD	Weatherford
9/28/2014	4,414	2.17	182.73	4,408	-7	-10	83	0.35	0.26	-6.45	128.14	MWD	Weatherford
9/28/2014	4,508	2.36	186.23	4,502	-10	-13	83	0.25	0.20	3.72	131.85	MWD	Weatherford
9/28/2014	4,602	2.54	190.49	4,596	-14	-17	82	0.27	0.19	4.53	135.87	MWD	Weatherford
9/29/2014	4,697	2.88	186.57	4,691	-19	-22	81	0.41	0.36	-4.13	140.36	MWD	Weatherford
9/28/2014	4,789	3.55	186.54	4,783	-24	-27	81	0.73	0.73	-0.03	145.52	MWD	Weatherford
9/28/2014	4,883	3.89	173.60	4,876	-30	-33	81	0.96	0.36	-13.77	151.58	MWD	Weatherford
9/28/2014	4,978	4.31	148.44	4,971	-36	-39	83	1.93	0.44	-26.48	158.21	MWD	Weatherford
9/30/2014	5,072	4.45	130.11	5,065	-41	-45	88	1.49	0.15	-19.50	165.29	MWD	Weatherford
9/30/2014	5,167	4.29	106.30	5,160	-45	-48	94	1.90	-0.17	-25.06	172.38	MWD	Weatherford
9/30/2014	5,261	4.07	102.68	5,253	-46	-50	100	0.37	-0.23	-3.85	179.23	MWD	Weatherford
9/30/2014	5,355	4.76	95.21	5,347	-47	-51	108	0.95	0.73	-7.95	186.45	MWD	Weatherford
9/30/2014	5,450	5.28	92.29	5,442	-47	-51	116	0.61	0.55	-3.07	194.76	MWD	Weatherford
9/30/2014	5,544	5.65	87.90	5,535	-47	-51	125	0.59	0.39	-4.67	203.70	MWD	Weatherford
10/1/2014	5,639	6.20	84.61	5,630	-46	-51	135	0.68	0.58	-3.46	213.50	MWD	Weatherford
10/1/2014	5,733	5.63	84.55	5,723	-45	-50	144	0.61	-0.61	-0.06	223.19	MWD	Weatherford
10/1/2014	5,828	6.52	89.48	5,818	-44	-49	154	1.09	0.94	5.19	233.24	MWD	Weatherford
10/1/2014	6,017	5.17	88.81	6,006	-43	-49	174	0.72	-0.71	-0.35	252.48	MWD	Weatherford
10/1/2014	6,110	5.15	96.16	6,098	-43	-49	182	0.71	-0.02	7.90	260.83	MWD	Weatherford
10/2/2014	6,204	5.54	95.82	6,192	-43	-50	191	0.42	0.41	-0.36	269.59	MWD	Weatherford
10/2/2014	6,298	6.13	96.47	6,286	-44	-51	200	0.63	0.63	0.69	279.14	MWD	Weatherford

NEWFIELD

Directional Survey

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10/2/2014	6,392	6.98	93.71	6,379	-45	-52	211	0.96	0.90	-2.94	289.87	MWD	Weatherford
10/3/2014	6,479	6.56	97.57	6,465	-45	-53	221	0.71	-0.48	4.44	300.12	MWD	Weatherford
10/3/2014	6,572	6.20	99.86	6,558	-47	-55	231	0.47	-0.39	2.46	310.45	MWD	Weatherford
10/3/2014	6,667	5.61	102.59	6,652	-48	-57	241	0.69	-0.62	2.87	320.22	MWD	Weatherford
10/3/2014	6,761	4.88	100.65	6,746	-50	-58	249	0.80	-0.78	-2.06	328.81	MWD	Weatherford
10/3/2014	6,856	5.90	95.83	6,840	-50	-60	258	1.17	1.07	-5.07	337.73	MWD	Weatherford
10/4/2014	6,950	6.80	94.47	6,934	-51	-61	268	0.97	0.96	-1.45	348.13	MWD	Weatherford
10/4/2014	7,045	7.66	77.78	7,028	-50	-60	280	2.38	0.91	-17.57	359.96	MWD	Weatherford
10/4/2014	7,071	8.48	70.14	7,054	-49	-59	284	5.19	3.15	-29.38	363.60	MWD	Weatherford
10/4/2014	7,107	9.36	66.32	7,089	-46	-57	289	2.95	2.44	-10.61	369.18	MWD	Weatherford
10/4/2014	7,138	10.57	62.52	7,120	-44	-54	294	4.44	3.90	-12.26	374.54	MWD	Weatherford
10/4/2014	7,170	11.77	59.48	7,151	-41	-51	299	4.18	3.75	-9.50	380.74	MWD	Weatherford
10/4/2014	7,202	12.93	54.27	7,183	-37	-47	305	5.02	3.63	-16.28	387.57	MWD	Weatherford
10/4/2014	7,233	14.08	51.17	7,213	-32	-43	311	4.38	3.71	-10.00	394.81	MWD	Weatherford
10/4/2014	7,265	15.48	47.46	7,244	-26	-38	317	5.28	4.38	-11.59	402.97	MWD	Weatherford
10/4/2014	7,296	16.89	42.86	7,273	-20	-32	323	6.14	4.55	-14.84	411.60	MWD	Weatherford
10/4/2014	7,327	17.70	38.25	7,303	-13	-25	329	5.13	2.61	-14.87	420.81	MWD	Weatherford
10/5/2014	7,359	18.42	33.93	7,333	-5	-17	335	4.75	2.25	-13.50	430.73	MWD	Weatherford
10/5/2014	7,390	19.32	31.72	7,363	4	-8	340	3.71	2.90	-7.13	440.75	MWD	Weatherford
10/5/2014	7,422	20.08	28.78	7,393	13	1	345	3.90	2.38	-9.19	451.53	MWD	Weatherford
10/5/2014	7,453	20.97	25.84	7,422	23	11	350	4.39	2.87	-9.48	462.40	MWD	Weatherford
10/5/2014	7,485	22.09	23.80	7,452	34	21	355	4.21	3.50	-6.38	474.14	MWD	Weatherford
10/5/2014	7,516	23.46	22.15	7,480	45	32	360	4.88	4.42	-5.32	486.14	MWD	Weatherford
10/5/2014	7,547	25.27	20.81	7,509	57	44	365	6.10	5.84	-4.32	498.93	MWD	Weatherford
10/5/2014	7,579	27.08	20.09	7,537	71	58	370	5.74	5.66	-2.25	513.04	MWD	Weatherford
10/5/2014	7,610	28.82	18.98	7,565	85	71	375	5.86	5.61	-3.58	527.57	MWD	Weatherford
10/5/2014	7,642	29.88	17.38	7,593	100	86	379	4.12	3.31	-5.00	543.26	MWD	Weatherford
10/5/2014	7,673	30.85	16.65	7,619	115	101	384	3.35	3.13	-2.35	558.93	MWD	Weatherford
10/6/2014	7,705	31.43	15.93	7,647	131	117	389	2.15	1.81	-2.25	575.47	MWD	Weatherford
10/6/2014	7,736	32.41	14.83	7,673	147	133	393	3.68	3.16	-3.55	591.86	MWD	Weatherford
10/6/2014	7,768	33.22	14.62	7,700	164	150	397	2.56	2.53	-0.66	609.20	MWD	Weatherford
10/6/2014	7,799	34.57	14.26	7,726	181	166	402	4.40	4.35	-1.16	626.49	MWD	Weatherford
10/6/2014	7,831	36.17	14.11	7,752	199	184	406	5.01	5.00	-0.47	645.02	MWD	Weatherford
10/6/2014	7,854	37.99	14.21	7,770	212	198	410	7.92	7.91	0.43	658.88	MWD	Weatherford
10/6/2014	7,893	39.49	14.62	7,801	236	221	416	3.90	3.85	1.05	683.29	MWD	Weatherford
10/6/2014	7,925	41.70	14.95	7,825	256	242	421	6.94	6.91	1.03	704.11	MWD	Weatherford
10/6/2014	7,962	43.22	15.26	7,852	281	266	428	4.15	4.11	0.84	729.08	MWD	Weatherford
10/11/2014	8,060	47.68	18.11	7,921	348	333	448	5.00	4.55	2.91	798.89	MWD	Weatherford
10/11/2014	8,091	48.00	18.75	7,942	370	354	455	1.85	1.03	2.06	821.87	MWD	Weatherford
10/11/2014	8,122	48.87	18.70	7,962	392	376	462	2.81	2.81	-0.16	845.06	MWD	Weatherford
10/11/2014	8,154	52.55	17.16	7,982	416	400	470	12.09	11.50	-4.81	869.83	MWD	Weatherford
10/11/2014	8,185	55.40	15.66	8,001	441	424	477	9.99	9.19	-4.84	894.89	MWD	Weatherford
10/11/2014	8,217	57.39	14.08	8,018	467	450	484	7.46	6.22	-4.94	921.54	MWD	Weatherford
10/11/2014	8,248	59.89	11.55	8,035	493	475	490	10.66	8.06	-8.16	948.01	MWD	Weatherford
10/11/2014	8,280	62.57	9.26	8,050	520	503	495	10.46	8.38	-7.16	976.05	MWD	Weatherford
10/11/2014	8,311	64.97	7.00	8,064	548	531	499	10.13	7.74	-7.29	1,003.86	MWD	Weatherford

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Directional Survey

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10/11/2014	8,343	67.00	3.47	8,077	577	560	501	11.91	6.34	-11.03	1,033.08	MWD	Weatherford
10/11/2014	8,374	68.14	0.21	8,089	606	588	502	10.39	3.68	-10.52	1,061.73	MWD	Weatherford
10/11/2014	8,406	69.41	359.32	8,100	636	618	502	4.74	3.97	1122.22	1,091.56	MWD	Weatherford
10/11/2014	8,437	71.31	358.90	8,111	665	647	502	6.26	6.13	-1.35	1,120.75	MWD	Weatherford
10/11/2014	8,469	73.57	358.94	8,120	695	678	501	7.06	7.06	0.13	1,151.26	MWD	Weatherford
10/11/2014	8,500	75.04	358.74	8,129	725	708	501	4.78	4.74	-0.65	1,181.10	MWD	Weatherford
10/11/2014	8,532	76.70	358.83	8,136	756	739	500	5.19	5.19	0.28	1,212.13	MWD	Weatherford
10/11/2014	8,563	78.71	358.34	8,143	786	769	499	6.67	6.48	-1.58	1,242.42	MWD	Weatherford
10/11/2014	8,595	80.65	357.58	8,149	818	800	498	6.50	6.06	-2.37	1,273.90	MWD	Weatherford
10/11/2014	8,626	82.39	357.19	8,153	848	831	497	5.75	5.61	-1.26	1,304.56	MWD	Weatherford
10/11/2014	8,657	84.07	357.31	8,157	879	862	495	5.43	5.42	0.39	1,335.34	MWD	Weatherford
10/11/2014	8,689	85.80	356.60	8,160	911	894	493	5.84	5.41	-2.22	1,367.22	MWD	Weatherford
10/11/2014	8,720	86.98	356.02	8,162	941	924	491	4.24	3.81	-1.87	1,398.15	MWD	Weatherford
10/11/2014	8,783	86.85	355.35	8,165	1,004	987	487	1.08	-0.21	-1.06	1,461.06	MWD	Weatherford
10/11/2014	8,873	87.16	354.43	8,170	1,093	1,077	479	1.08	0.34	-1.02	1,550.94	MWD	Weatherford
10/13/2014	8,917	87.53	354.26	8,172	1,137	1,120	474	0.93	0.84	-0.39	1,594.89	MWD	Weatherford
10/13/2014	9,011	87.47	354.60	8,176	1,230	1,214	465	0.37	-0.06	0.36	1,688.80	MWD	Weatherford
10/13/2014	9,106	86.05	354.22	8,181	1,324	1,308	456	1.55	-1.49	-0.40	1,783.65	MWD	Weatherford
10/13/2014	9,200	86.17	356.54	8,188	1,417	1,402	448	2.47	0.13	2.47	1,877.42	MWD	Weatherford
10/13/2014	9,295	87.72	358.97	8,193	1,511	1,497	445	3.03	1.63	2.56	1,972.28	MWD	Weatherford
10/13/2014	9,389	88.58	359.23	8,196	1,605	1,591	443	0.96	0.91	0.28	2,066.23	MWD	Weatherford
10/13/2014	9,484	89.32	356.85	8,198	1,700	1,685	440	2.62	0.78	-2.51	2,161.21	MWD	Weatherford
10/13/2014	9,578	88.83	354.61	8,199	1,793	1,779	433	2.44	-0.52	-2.38	2,255.19	MWD	Weatherford
10/14/2014	9,673	89.08	352.70	8,201	1,887	1,874	423	2.03	0.26	-2.01	2,350.17	MWD	Weatherford
10/14/2014	9,767	89.14	355.18	8,202	1,980	1,967	413	2.64	0.06	2.64	2,444.15	MWD	Weatherford
10/14/2014	9,861	88.52	354.43	8,204	2,074	2,061	404	1.04	-0.66	-0.80	2,538.13	MWD	Weatherford
10/14/2014	9,956	87.60	353.15	8,207	2,168	2,155	394	1.66	-0.97	-1.35	2,633.07	MWD	Weatherford
10/14/2014	10,050	87.36	349.36	8,211	2,260	2,248	380	4.04	-0.26	-4.03	2,726.96	MWD	Weatherford
10/14/2014	10,144	87.47	349.42	8,216	2,351	2,340	362	0.13	0.12	0.06	2,820.87	MWD	Weatherford

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Powwitch 15-13-12-3-2WB	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013519420000	NWNE 75FNL 2332FEL SEC24 T3S R2W MERU	UINTA CB - BAR F HORZ	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500358785	Duchesne	Utah	9/21/2014 06:00	10/28/2014 00:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
10/14/2014	10,239	87.66	353.39	8,220	2,445	2,434	348	4.18	0.20	4.18	2,915.76	MWD	Weatherford
10/14/2014	10,333	87.66	354.22	8,224	2,538	2,527	338	0.88	0.00	0.88	3,009.68	MWD	Weatherford
10/14/2014	10,428	87.72	354.37	8,227	2,632	2,622	329	0.17	0.06	0.16	3,104.61	MWD	Weatherford
10/14/2014	10,522	88.95	357.63	8,230	2,725	2,715	322	3.71	1.31	3.47	3,198.55	MWD	Weatherford
10/14/2014	10,616	89.26	359.73	8,232	2,819	2,809	320	2.26	0.33	2.23	3,292.53	MWD	Weatherford
10/14/2014	10,711	89.38	359.01	8,233	2,914	2,904	319	0.77	0.13	-0.76	3,387.53	MWD	Weatherford
10/14/2014	10,805	88.95	359.37	8,234	3,008	2,998	317	0.60	-0.46	0.38	3,481.52	MWD	Weatherford
10/15/2014	10,900	87.41	359.88	8,237	3,103	3,093	317	1.71	-1.62	0.54	3,576.47	MWD	Weatherford
10/15/2014	10,994	88.83	2.76	8,240	3,197	3,187	319	3.41	1.51	-379.91	3,670.40	MWD	Weatherford
10/15/2014	11,088	88.64	2.09	8,242	3,291	3,281	323	0.74	-0.20	-0.71	3,764.38	MWD	Weatherford
10/15/2014	11,183	88.52	0.46	8,245	3,386	3,376	325	1.72	-0.13	-1.72	3,859.35	MWD	Weatherford
10/15/2014	11,277	87.78	0.96	8,248	3,479	3,470	326	0.95	-0.79	0.53	3,953.30	MWD	Weatherford
10/15/2014	11,371	87.84	359.09	8,251	3,573	3,564	326	1.99	0.06	380.99	4,047.22	MWD	Weatherford
10/15/2014	11,466	88.46	6.93	8,254	3,668	3,659	331	8.27	0.65	-370.69	4,142.10	MWD	Weatherford
10/15/2014	11,561	88.09	5.75	8,257	3,763	3,753	342	1.30	-0.39	-1.24	4,237.05	MWD	Weatherford
10/16/2014	11,655	89.01	5.11	8,260	3,857	3,847	351	1.19	0.98	-0.68	4,331.02	MWD	Weatherford
10/16/2014	11,749	87.41	2.62	8,263	3,951	3,940	357	3.15	-1.70	-2.65	4,424.97	MWD	Weatherford
10/16/2014	11,844	86.98	4.67	8,267	4,045	4,035	363	2.20	-0.45	2.16	4,519.85	MWD	Weatherford
10/16/2014	11,938	86.85	1.79	8,272	4,139	4,129	368	3.06	-0.14	-3.06	4,613.70	MWD	Weatherford
10/16/2014	12,033	87.16	2.49	8,277	4,234	4,224	372	0.80	0.33	0.74	4,708.57	MWD	Weatherford
10/16/2014	12,127	86.73	0.68	8,282	4,328	4,317	374	1.98	-0.46	-1.93	4,802.43	MWD	Weatherford
10/16/2014	12,221	88.89	0.57	8,286	4,422	4,411	375	2.30	2.30	-0.12	4,896.36	MWD	Weatherford
10/16/2014	12,316	89.38	3.55	8,287	4,517	4,506	379	3.18	0.52	3.14	4,991.34	MWD	Weatherford
10/16/2014	12,410	87.66	357.99	8,290	4,611	4,600	380	6.19	-1.83	377.06	5,085.27	MWD	Weatherford
10/16/2014	12,505	87.60	355.63	8,294	4,705	4,695	375	2.48	-0.06	-2.48	5,180.18	MWD	Weatherford
10/16/2014	12,599	88.21	355.15	8,297	4,799	4,789	367	0.83	0.65	-0.51	5,274.11	MWD	Weatherford
10/16/2014	12,693	87.47	354.23	8,301	4,892	4,882	359	1.26	-0.79	-0.98	5,368.05	MWD	Weatherford
10/16/2014	12,788	86.73	356.40	8,305	4,986	4,977	351	2.41	-0.78	2.28	5,462.92	MWD	Weatherford
10/17/2014	12,882	85.31	356.27	8,312	5,079	5,070	345	1.52	-1.51	-0.14	5,556.69	MWD	Weatherford

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Powvitch 15-13-12-3-2WB	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013519420000	NWNE 75FNL 2332FEL SEC24 T3S R2W MERU	UINTA CB - BAR F HORZ	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500358785	Duchesne	Utah	9/21/2014 06:00	10/28/2014 00:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
10/17/2014	12,977	86.67	356.97	8,319	5,174	5,165	339	1.61	1.43	0.74	5,651.45	MWD	Weatherford
10/17/2014	13,071	87.35	357.55	8,323	5,267	5,259	335	0.95	0.72	0.62	5,745.32	MWD	Weatherford
10/17/2014	13,166	87.59	357.74	8,328	5,362	5,353	331	0.32	0.25	0.20	5,840.23	MWD	Weatherford
10/17/2014	13,260	88.15	357.50	8,331	5,455	5,447	327	0.65	0.60	-0.26	5,934.17	MWD	Weatherford
10/17/2014	13,355	88.52	356.83	8,334	5,550	5,542	322	0.81	0.39	-0.71	6,029.12	MWD	Weatherford
10/17/2014	13,544	88.24	2.58	8,339	5,739	5,731	321	3.04	-0.15	-187.43	6,217.97	MWD	Weatherford
10/17/2014	13,638	87.90	2.37	8,342	5,833	5,825	325	0.43	-0.36	-0.22	6,311.92	MWD	Weatherford
10/18/2014	13,732	87.84	2.50	8,346	5,927	5,919	329	0.15	-0.06	0.14	6,405.85	MWD	Weatherford
10/18/2014	13,826	87.47	1.38	8,350	6,021	6,013	333	1.25	-0.39	-1.19	6,499.77	MWD	Weatherford
10/18/2014	13,921	88.52	0.65	8,353	6,115	6,107	334	1.35	1.11	-0.77	6,594.71	MWD	Weatherford
10/18/2014	14,015	88.58	0.59	8,355	6,209	6,201	335	0.09	0.06	-0.06	6,688.68	MWD	Weatherford
10/18/2014	14,109	87.53	1.17	8,359	6,303	6,295	337	1.28	-1.12	0.62	6,782.62	MWD	Weatherford
10/18/2014	14,204	87.53	1.65	8,363	6,398	6,390	339	0.50	0.00	0.51	6,877.54	MWD	Weatherford
10/18/2014	14,298	86.55	0.59	8,368	6,492	6,484	341	1.53	-1.04	-1.13	6,971.41	MWD	Weatherford
10/18/2014	14,393	87.23	0.43	8,373	6,587	6,579	342	0.74	0.72	-0.17	7,066.27	MWD	Weatherford
10/18/2014	14,487	87.66	0.29	8,377	6,681	6,673	342	0.48	0.46	-0.15	7,160.17	MWD	Weatherford
10/18/2014	14,582	88.06	1.17	8,381	6,776	6,768	344	1.02	0.42	0.93	7,255.11	MWD	Weatherford
10/18/2014	14,676	87.96	1.17	8,384	6,870	6,862	345	0.11	-0.11	0.00	7,349.05	MWD	Weatherford
10/18/2014	14,771	87.90	0.95	8,387	6,965	6,957	347	0.24	-0.06	-0.23	7,443.99	MWD	Weatherford
10/18/2014	14,866	87.90	0.15	8,391	7,059	7,052	348	0.84	0.00	-0.84	7,538.92	MWD	Weatherford
10/18/2014	14,960	87.96	359.87	8,394	7,153	7,145	348	0.30	0.06	382.68	7,632.86	MWD	Weatherford
10/18/2014	15,054	88.09	0.23	8,397	7,247	7,239	348	0.41	0.14	-382.60	7,726.81	MWD	Weatherford
10/19/2014	15,149	87.90	0.59	8,401	7,342	7,334	349	0.43	-0.20	0.38	7,821.75	MWD	Weatherford
10/19/2014	15,243	87.84	0.38	8,404	7,436	7,428	350	0.23	-0.06	-0.22	7,915.68	MWD	Weatherford
10/19/2014	15,338	87.90	0.44	8,408	7,531	7,523	350	0.09	0.06	0.06	8,010.62	MWD	Weatherford
10/19/2014	15,432	87.96	358.88	8,411	7,625	7,617	350	1.66	0.06	381.32	8,104.55	MWD	Weatherford
10/19/2014	15,527	88.24	358.17	8,414	7,720	7,712	347	0.80	0.29	-0.75	8,199.50	MWD	Weatherford
10/19/2014	15,622	88.64	358.79	8,417	7,814	7,807	345	0.78	0.42	0.65	8,294.46	MWD	Weatherford
10/19/2014	15,716	89.01	0.52	8,419	7,908	7,901	344	1.88	0.39	-381.14	8,388.44	MWD	Weatherford

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Powvitch 15-13-12-3-2WB	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013519420000	NWNE 75FNL 2332FEL SEC24 T3S R2W MERU	UINTA CB - BAR F HORZ	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500358785	Duchesne	Utah	9/21/2014 06:00	10/28/2014 00:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
10/19/2014	15,811	87.59	359.48	8,422	8,003	7,996	344	1.85	-1.49	377.85	8,483.39	MWD	Weatherford
10/20/2014	15,905	86.23	359.21	8,427	8,097	8,090	343	1.47	-1.45	-0.29	8,577.26	MWD	Weatherford
10/20/2014	16,000	85.31	0.93	8,434	8,192	8,185	343	2.05	-0.97	-377.14	8,671.99	MWD	Weatherford
10/20/2014	16,094	86.48	4.10	8,440	8,285	8,278	347	3.59	1.24	3.37	8,765.74	MWD	Weatherford
10/20/2014	16,188	85.99	6.15	8,447	8,379	8,372	356	2.24	-0.52	2.18	8,859.53	MWD	Weatherford
10/20/2014	16,283	85.68	4.26	8,453	8,474	8,466	364	2.01	-0.33	-1.99	8,954.27	MWD	Weatherford
10/20/2014	16,377	85.38	1.37	8,461	8,567	8,560	369	3.08	-0.32	-3.07	9,047.98	MWD	Weatherford
10/20/2014	16,471	85.62	1.09	8,468	8,661	8,653	371	0.39	0.26	-0.30	9,141.69	MWD	Weatherford
10/20/2014	16,566	85.43	1.61	8,476	8,756	8,748	373	0.58	-0.20	0.55	9,236.40	MWD	Weatherford
10/20/2014	16,660	85.55	359.36	8,483	8,849	8,842	374	2.39	0.13	380.59	9,330.10	MWD	Weatherford
10/21/2014	16,755	85.24	359.40	8,491	8,944	8,936	373	0.33	-0.33	0.04	9,424.79	MWD	Weatherford
10/21/2014	16,849	85.24	359.76	8,498	9,037	9,030	372	0.38	0.00	0.38	9,518.47	MWD	Weatherford
10/21/2014	16,943	87.96	1.23	8,504	9,131	9,124	373	3.29	2.89	-381.41	9,612.29	MWD	Weatherford
10/21/2014	17,037	84.13	358.82	8,510	9,225	9,218	373	4.81	-4.07	380.41	9,706.04	MWD	Weatherford
10/21/2014	17,132	84.26	0.81	8,520	9,319	9,312	373	2.09	0.14	-376.85	9,800.55	MWD	Weatherford
10/21/2014	17,226	85.99	3.32	8,528	9,413	9,406	376	3.23	1.84	2.67	9,894.20	MWD	Weatherford
10/21/2014	17,321	86.30	1.13	8,534	9,508	9,500	380	2.32	0.33	-2.31	9,988.98	MWD	Weatherford
10/21/2014	17,415	87.10	0.23	8,540	9,602	9,594	381	1.28	0.85	-0.96	10,082.82	MWD	Weatherford
10/21/2014	17,509	86.73	360.00	8,545	9,695	9,688	381	0.46	-0.39	382.73	10,176.69	MWD	Weatherford
10/21/2014	17,604	86.11	359.18	8,551	9,790	9,783	381	1.08	-0.65	-0.86	10,271.50	MWD	Weatherford
10/22/2014	17,698	85.55	356.02	8,558	9,884	9,877	377	3.41	-0.60	-3.36	10,365.24	MWD	Weatherford
10/22/2014	17,793	85.56	353.51	8,565	9,978	9,971	368	2.63	0.01	-2.64	10,459.95	MWD	Weatherford
10/22/2014	17,888	85.33	353.76	8,573	10,071	10,065	357	0.36	-0.24	0.26	10,554.65	MWD	Weatherford

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Job Category	Job Start Date	Job End Date

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
11/4/2014	11/5/2014	We are attempting to open RSI toe sleeve. Pinned to7565psi walked pressure to 9000psi on several attempts to open RSI to no avail. Currently holding 9500psi as per NFX engineer .

Start Time	End Time	Comment
10:00	12:30	10:00 Spot in Halliburton and 11:30 rig up Halliburton
12:30	13:30	Pressure test pumps and lines to 6000 PSI 12:47Pressure test pump and line Start pumping - pressure up to 720 psi Shut down, reboot computer on Acid pump 12:59 Open HCR Valve and pressure dropped to 0 psi 13:00 Start pumping in with 2 bpm pressure began climbing immediately reduced rate to 1.5 bpm at 4500 psi then reduced rate to 1 bpm at 5500 psi 13:05 Pressured up to 6040 psi and stopped pumping Found a leak on the pump in line and shut in line at 2" manifold and monitor pressure for 30 minutes 13:35 Pressure bleed to 5967 so the total pressure lost was 173 psi 13:37 Bleed pressure of HALLIBURTON line and fix leak on iron then pressure test line to 6000 and open to well. 13:39 Bleed pressure off well back to acid truck 13:44 Close in bleed off
13:30	17:00	Pump in to open RSI / discuss plan to pump in with frac pump at 7.5 bpm 13:45 Start pumping at 7.5 with kicks set at 9000 psi 13:48 Pumps kicked out at 8770 with 10.56 bbls pumped pressure holding at 8750 psi 13:51 Bleed pressure back to truck to 5100 psi 13:54 Start boost and begin pumping (pump in again at same pump settings but rate was not reading) pressure up to 8970 pumps kicked out. Help pressure for 5 minutes 14:00 Bleed pressure to zero 14:06 Close in bleed off start boost and begin pumping at 4.7 bpm pump in 9.5 bbls to pressure up to 9040 psi 14:10 Pressure holding at 9000 psi 14:30 Close in frac iron and open up to B&C test truck 15:38 Pump in at 1/8 bpm bring pressure up to 9500 psi! 15:06 Bumped pressure up to 9800 psi at 1/8 bpm 15:20 Bleed down to 9000 psi washed bleeder valve on test truck, shut in well and bleed off then change bleeder valve and open well up 15:30 Pressure up to 10000 psi 15:58 Bleed pressure off of well 16:04 Start pumping in at 7 bpm with frac pump pressure up to 9130 and stop pumping 16:07 Close in Halliburton iron 16:08 Bump in with B&C test truck at 1/8 bpm from 9130 to 9900 psi 16:12 Hold 9900 psi 16:35 Bumped pressure up to 10,100 Psi with B&C test truck17:05 bleed pressure off to 0 hold Pressure while decisions are made weather or not to shut down for the night Trouble Shoot Frack Pump (Kicking out before set Kickout pressure)

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
17:00	18:30	Pickle up pumps and lines with Brine and Rig down Frac pump 17:10 Rig down DFIT gauges /Trouble shoot frac pump / Drain up and rig down frac pump Prime up acid pump with brine water to pickle up pump and lines 18:03 Begin pumping with Acid pump at 3.8 bpm set kicks at 9000 psi 18:05 Drop rate to 2.5 bpm 18:06 Pressured up to 9100 stop pumps 18:07 Begin pumping at 1/8 bpm with B&C quick test pump to 9500 psi with brine to pickle well head and valves. Shut in HCR and bottom frac valve for double barrier then shut inside wing valves and break off HALLIBURTON iron and B&C Quick Test truck
18:30	00:00	Shut down for night / 9500 PSi on well.

Report Start Date	Report End Date	24hr Activity Summary
11/5/2014	11/6/2014	.

Start Time	End Time	Comment
00:00	08:00	Wait on Daylight
08:00	09:00	B&C Quick Test arrived at 08:00 and held PJSM with Location supervisors and then checked pressure on the well (9400 PSI) Halliburton called to let us know that they were Delayed by road-side UDOT inspection. (Frac truck Passed DOT Inspection perfectly)
09:00	12:00	Rig up Halliburton and Pressure test pump and lines to 9000 then open well to halliburton and Bleed pressure off of well. Communicate with Leadership team to make a plan forward.
12:00	14:00	Weltech and JW Wireline arrived on location at 12:00 Hold PJSM with B&C Quick test and JW wireline Nippled down 7 1/16 flange on top frac head and remove "Night cap" then Nipple up Wireline lubricator adapter (Wireline crane Broke down and it took JW approxamatly 15 minutes to get a new crane on location so no Downtime was recorded) Rig up crane and begin rigging up Wireline.
14:00	18:00	Rig up Wire line and lubricator Rig up 5 ½" 10K lubricator, test 10k with B& C quick test, Pick up Tractor tool with perf gun string Tractor string: 22.38 Gun String:21.96 Total length:44.34 Total weight: 755.5 lbs
18:00	00:00	RIH with WL tractor and perf guns. Correlate to csg tally at 7719'. RIH and set down at 8575'. Dn wt 870, up wt 1500, static 1340. Pressure csg to 3000 psi. Tractor guns IH at 38 fpm and 940 LTEN. Unable to locate marker jt at 10,495'. Correlate to csg tally at 12,753' and 15,261'.

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
11/6/2014	11/7/2014	Tractor perf gun IH.

Start Time	End Time	Comment
00:00	01:00	Tractor perf gun IH. Tag at 17,422'. HES holding 3890 psi on csg. POH and perforate 9 holes at 17,375' to 17378'.
01:00	04:30	POH running CCL to surf. Correlate to csg tally. All shots fired. All tools recovered. Install night cap on WL BOP. SICP 2800 psi.
04:30	06:00	Install data traps. Equalize pressure on frac tree and open middle master valve. SICP 2,697 psi. Pump DFIT at 7 bpm. With 12 bbl pumped got a break at 7,648 psi. With 17 bbl pumped got a second break at 8,220 psi. With 23 bbl pumped got a break at 8,605 psi. Pumped 35 bbl with final pressure of 7,838 psi. Last 14 bbl pumped were brine water. ISIP 7,324 psi
06:00	08:00	Continue DFIT Final Shut in Pressure after 1 Hour is 3084 PSI. / Rig down Wireline, install Night cap and nipple up, Rig down and move out Halliburton, Weltech and JW wireline.
08:00	17:00	Continue DFIT 09:00 Pressure Gauge 7 = 2930.96 / Pressure gauge 8 = 2930.96 11:00 Pressure Gauge 7 = 2859.12 / Pressure gauge 8 = 2859.12 13:00 Pressure Gauge 7 = 2808.24 / Pressure gauge 8 = 2808.09 15:00 Pressure Gauge 7 = 2757.44 / Pressure gauge 8 = 2757.05 17:00 Pressure Gauge 7 = 2733.92 / Pressure gauge 8 = 2733.64 Select rental delivered Air heater Cardwell Petroleum Delivered fuel Ute Tribal UTERO commission Came to inspect location Weatherford Rigged up Tarp around well head Started Air heater at 16:30
17:00	00:00	19:00 Pressure Gauge #7 - 2700.79 / Pressure Gauge #8 - 2700.38 21:00 Pressure Gauge #7 - 2672.5 / Pressure Gauge #8 - 2672.14 23:00 Pressure Gauge #7 – 2647.98 / Pressure Gauge #8 – 2647.62

Report Start Date	Report End Date	24hr Activity Summary
11/7/2014	11/8/2014	DFIT

Start Time	End Time	Comment
00:00	00:00	01:00 Pressure Gauge #7 – 2627.11 / Pressure Gauge #8 – 2626.8 03:00 Pressure Gauge #7 – 2608.14 / Pressure Gauge #8 – 2607.73 05:00 Pressure Gauge #7 – 2590.69 / Pressure Gauge #8 – 2590.37 07:00 Pressure Gauge #7 – 2574.46 / Pressure Gauge #8 – 2574.19 15:00 Pressure Gauge #7 - 2522.72 / Pressure Gauge #8 - 2522.32 23:00 Pressure Gauge #7 - 2485.58 / Pressure Gauge #8 - 2485.17

Report Start Date	Report End Date	24hr Activity Summary
11/8/2014	11/9/2014	DFIT

Start Time	End Time	Comment
00:00	00:00	07:00 Current Pressure Gauge 7= 2485.58 / Gauge 8= 2485.17. 15:00 pressure readings Gauge 7= 2429.71 / Gauge 8= 2429.27. 23:00 Gauge 7- 2409.28 / Gauge 8- 2408.88.

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
11/9/2014	11/10/2014	DFIT

Start Time	End Time	Comment
00:00	00:00	7:00 Current Pressure Gauge 7- 2390.51 / Gauge 8- 2390.30. 23:00 Gauge 7- 2362.11 / Gauge 8- 2361.69.

Report Start Date	Report End Date	24hr Activity Summary
11/10/2014	11/11/2014	DFIT

Start Time	End Time	Comment
00:00	00:00	Monitor Pressure and record every 8 Hours / Current Pressure at 07:00 Gauge 7- 2349.94 / Gauge 8- 2349.66 Monitor Pressure and record every 8 Hours / Current Pressure at 15:00 Gauge 7- 2339.87 / Gauge 8- 2338.64 23:00 DFIt pressure-- Gauge 7- 2328.68 / Gauge 8- 2328.33.

Report Start Date	Report End Date	24hr Activity Summary
11/11/2014	11/12/2014	DFIT

Start Time	End Time	Comment
00:00	00:00	Monitor Pressure and record every 8 Hours / Current pressure at 07:00 Gauge 7- 2320.27 / Gauge 8- 2320.33 / Current Pressure at 15:00 Gauge 7- 2312.29 , Gauge 8- 2311.96 23:00--Gauge 7-2304.10/Gauge 8-2303.96

Report Start Date	Report End Date	24hr Activity Summary
11/12/2014	11/13/2014	DFIT

Start Time	End Time	Comment
00:00	00:00	Monitor Pressure and record every 8 Hours / Current pressure at 06:00 Gauge 7-2297.31/Gauge 8-2297.22 / Current Pressure at 15:00 Gauge 7- 2290.89, Gauge 8- 2290.66 23:00 Gauge 7-2280.20/Gauge 8-2280.31

Report Start Date	Report End Date	24hr Activity Summary
11/13/2014	11/14/2014	DFIT

Start Time	End Time	Comment
00:00	00:00	Monitor Pressure and record every 8 Hours / Current pressure at 07:00 Gauge 7- 2278.30, Gauge 8- 2278.44 / Current Pressure at 15:00 Gauge 7- 2273.38, Gauge 8- 2273.18 23:00 Gauge 7-2268.17/gauge 8-2268.15

Report Start Date	Report End Date	24hr Activity Summary
11/14/2014	11/15/2014	DFIT

Start Time	End Time	Comment
00:00	00:00	7 AM - Monitor Pressure and record every 8 Hours / Current Pressure Gauge 7- 2262.77, Gauge 8- 2262.52 3 PM - Monitor Pressure and record every 8 Hours / Current Pressure Gauge 7- 2258.88, Gauge 8- 2258.51\ 23:00 Gauge 7-2253.62/gauge 8-2253.25

Report Start Date	Report End Date	24hr Activity Summary
11/15/2014	11/16/2014	DFIT

Start Time	End Time	Comment
00:00	00:00	7 AM - Monitor Pressure and record every 8 Hours / Current Pressure Gauge 7- 2249.33, Gauge 8- 2249.25 3 PM - Monitor Pressure and record every 8 Hours / Current Pressure Gauge 7- 2244.81, Gauge 8- 2244.50 23:00 -- Gauge 7-2241.81/Gauge 8-2241.72

Report Start Date	Report End Date	24hr Activity Summary
11/16/2014	11/17/2014	DFIT

Start Time	End Time	Comment
00:00	00:00	7 AM - Monitor Pressure and record every 8 Hours / Current Pressure Gauge 7- 2237.71, Gauge 8- 2238.13 3 PM - Monitor Pressure and record every 8 Hours / Current Pressure Gauge 7- 2235.33, Gauge 8- 2234.84 23:00--Gauge 7-2231.12/Gauge 8-2230.82

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
11/17/2014	11/18/2014	DFIT

Start Time	End Time	Comment
00:00	09:00	7 AM - Monitor Pressure and record every 8 Hours / Current Pressure Gauge 7- 2227.59, Gauge 8- 2227.40
09:00	18:00	Halliburton & crane showed up on location getting everything spotted in & ready to wireline. RD DFIT gauges & night cap. RU Halliburton wireline & pressure test lube to 9,000 psi RIH W/ gauge ring. RIH pump down to 17,700'. POOH W/gauge ring.
18:00	00:00	LD gauge ring & PU CAST-M logging tools & pressure test lubricator per Newfield standards. Refill water tanks. Pump down CAST-M tool at 5 bpm, LTEN 60, 10 fpm, 5050 psi to 1500'. Tool started falling at that depth.

Report Start Date	Report End Date	24hr Activity Summary
11/18/2014	11/19/2014	RU WL truck. Run Gauge ring.

Start Time	End Time	Comment
00:00	02:00	RIH with CAST-M logging tool to 8200'. Tool not working when rotating the head. POH to reset the telemetry on the head.
02:00	07:00	POH. LD and repair logging tool. PU tool and lubricator. Check tool before starting IH, found CBL not working, work on CBL.
07:00	11:00	Halliburton had picked up tools & tested lube & RIH a couple hundred foot & tested tool it didn't respond so came back out repair logging tool. PU tool and lubricator. Check tool before starting IH.
11:00	15:00	Checking connection on drum to make sure that it is hooked up correctly. Waiting on a new communication box for wireline truck. Got all new stuff put on Halliburton truck & still not working 100% of the time. POOH W/wireline & tools. Re-head wireline & check all things out on surface.
15:00	20:00	Wait on another WL truck from Rock Springs.
20:00	00:00	Change out HES WL trucks. PU and check logging tools. Test lubricator per Newfield's guidelines. GIH to 30', PU to work logging tool in as centralizers were dragging . Started losing hole as we worked the tool up and down, working down to only 5'.

Report Start Date	Report End Date	24hr Activity Summary
11/19/2014	11/20/2014	CAST-M log

Start Time	End Time	Comment
00:00	02:00	LD tool logging tool. Found problem with lubricator pack off rubbers and repaired. PU tool and test lubricator to Newfield's standards.
02:00	04:00	RIH with CAST-M log to 7900' then pump down tools. Pump pressure 6320 psi at 11.8 bpm. Line speed 210 fpm with 750 LTEN. Max pressure 7100 psi. Pumped 590 bbl. Max depth 17,320'.
04:00	12:00	Run CAST-M log from 17,320' to 1,800'. POOH LD tools & RD Halliburton wireline. Had Halliburtons pump truck brine wellhead. RD Halliburton pump trucks & MO.
12:00	00:00	Clean up location & finish poly transfer line from the Earl pad.

Report Start Date	Report End Date	24hr Activity Summary
11/20/2014	11/21/2014	CAST-M log

Start Time	End Time	Comment
00:00	00:00	SDFN - Rock Water is on location finishing up poly tranfer line testing & dry pigging.

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
11/21/2014	11/22/2014	Finish poly transfer line from the Earl pad.

Start Time	End Time	Comment
00:00	06:00	SDFN
06:00	18:00	Well is shut in . Rockwater is pumping frac water back to Earl pad to avoid freezing in tanks . Haul approx: 1800 bbls
18:00	00:00	SDFN

Report Start Date	Report End Date	24hr Activity Summary
11/22/2014	11/23/2014	Finish poly transfer line from the Earl pad.

Start Time	End Time	Comment
00:00	00:00	Shut Down, Wait on Frac

Report Start Date	Report End Date	24hr Activity Summary
11/23/2014	11/24/2014	Wait on Frac

Start Time	End Time	Comment
00:00	00:00	Shut Down, Wait on Frac

Report Start Date	Report End Date	24hr Activity Summary
11/24/2014	11/25/2014	Wait on Frac

Start Time	End Time	Comment
00:00	00:00	Shut down, Wait on Frac

Report Start Date	Report End Date	24hr Activity Summary
11/25/2014	11/26/2014	Wait on Frac

Start Time	End Time	Comment
00:00	06:00	SDFN
06:00	10:00	Rig up Pro's Flowback Lines & Manifold
10:00	17:00	Pressure Test Flowback Lines & Manifold to Newfield Guidelines, Construction widen road at entrance to location, Spot in & set 500 bbl. Acid tank, Move in Halliburton Mountain Movers, Nipple Down Blanking Flange, Nipple Up 7 1/16"X 10K JW Wireline Flange, Pressure Test Wireline Flange to Newfields Guidelines
17:00	00:00	Wait on Frac to start, SDFN

Report Start Date	Report End Date	24hr Activity Summary
11/26/2014	11/27/2014	Wait on Frac

Start Time	End Time	Comment
00:00	06:00	SDFN
06:00	11:00	Goff Trucking loading frac sand into Halliburton Mountain Movers
11:00	00:00	Wait on Frac to start, SDFN

Report Start Date	Report End Date	24hr Activity Summary
11/27/2014	11/28/2014	Wait on Frac

Start Time	End Time	Comment
00:00	00:00	Waiting for frac

Report Start Date	Report End Date	24hr Activity Summary
11/28/2014	11/29/2014	Wait on Frac

Start Time	End Time	Comment
00:00	06:00	SDFN

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
06:00	18:00	Move in Halliburton Frac Equip. RU and test frac lines. Move in & Rig up JW Wireline, Heating Water on Earl pad for Frac.

Report Start Date	Report End Date	24hr Activity Summary
11/29/2014	11/30/2014	MIRU Halliburton equipment & transfer water for frac.

Start Time	End Time	Comment
00:00	07:00	Transfering water for Frac.
07:00	16:00	Hold JSA, Bucket Test, Halliburton working on Blender Computer, Pressure test frac lines to 10,000psi, Pump laterial volume, Start Frac Stage #1. Global Kick Outs set at 9500 psi. Pressure tested to 10400 psi. Job pumped Produced Water with 1.0% KCl .2. Calculated 8 holes open, 1813 psi perf friction, 997 psi NWB as per FracPro. Developed a leak after coming back on from FET. Shut down to fix. Made some minor design changes as per NF engineering. Started back into job and established XL and pumped 100 Mesh Displaced 100 Mesh with linear gel. Pressure started coming up with XL fluid on formation. Rate dropped to 14 bpm @ 9,100 psi. Decision made to swap back to FR. and flush the well. Placed approx. 6,900 lbs. of 100 Mesh in formation. Good job by crew with all the changes, move on to stage 2. Had multiple problems at the start of the job with data communication between IFS and Fracpro. WG-36-2.3% (15.5), BC-200-8.6% (2), FR-76-9.5% (2.3),BA-20-53.3% (5.7), CL-31-44.8% (1.5) BE-9-24.9% (5), MO-67-73.7% (4.2), MC S-2510T-6.1% (2.3) Vicon NF-4.4% (4.3), Losurf 300D-6.1% (4.6) Cat 3/4-168.4% (10.7),
16:00	18:30	P&P stage 2. RIH with guns and Plug to KOP. pumped down guns at 13.2 bpm @ 6785 Psi, @208 fpm, 724 LT, pumped guns to17,345', Pulled up and got line tension and set plug @ 17,316'. Line tension prior to setting plug 2009, line tension after plug set 1748, plug set time 1 min. perf'ed at (17,275'- 17,278') (17,210' - 17,213'. POOH with tools, max pressure for pump down:7768 . Max rate for pump down- 13.2 bpm. Total BBls pumped-547.71. POOH w/tools all shots fired. Drop ball & turn over to Frac.
18:30	21:00	Start Frac Stage #2. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10400 psi. Job pumped Produced Water with 1.0% KCl . 2. Calculated 15 holes open, 1095 psi perf friction, 262 psi NWB as per FracPro. 3. Ran a little heavy on 100 Mesh sand and 30/50 prop. 4. Stage went well. All proppant placed. WG-36-2.9% (63.6), BC-200-4.3% (6.1), MO-67-4.1% (1.5), MC S-2510T-2.3% (1.7) Vicon NF-2.9% (6.7), Losurf 300D-5% (7.3) FE-2A-5.3% (1.7),
21:00	00:00	P&P stage 3. RIH with guns and Plug to KOP. Pumped down guns at 13.2 bpm @ 4,518 Psi, @220 fpm, 860 LT, pumped guns to17,140', Pulled up and got line tension and set plug @ 17,110'. LT prior to setting plug 2,122, LT after plug set 1,772, plug set time 50 sec. perforated at (17,100'- 17,103') (17,050' - 17,053')(17,000-17,003). Max pressure for pump down was 4,518 psi. Max rate for pump down- 13.2 bpm. Total Bbls pumped – 522.2. POOH w/tools all shots fired. Drop ball & turn over to Frac.

Report Start Date	Report End Date	24hr Activity Summary
11/30/2014	12/1/2014	Pressure test lines & start frac. Frac stage 1 & 2. P&P stages 1, 2 & 3.

Start Time	End Time	Comment
00:00	02:00	Start Frac on Stage #3. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water with 1.0% KCl . 2. Calculated 17 holes open, 778 psi perf friction, 663 psi NWB as per FracPro. 3. T-Belt sanded off during 3.0# sand stage. Sand fell off completely. 10,000 gallons after losing sand, operators were able to clean up and get going again. Redesigned and worked back up to 3.5# to resume stage. 4. Started losing tub on flush. Had to drop 4 bpm down to 56 bpm. 5. Good effort in recovering by crew. WG-36-4.9% (166.2), BC-200-2.8% (6.1), FR-76-39.7% (12.8),BA-20-9.6% (5.2), CL-31-4.5% (1.5) MO-67-2.5% (1.5), Losurf 300D-4.6% (9.1)FE-2A-22.7% (9.4), Cat 3/4-9.3% (2.7), BE-9-3.4% (1)

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
02:00	04:30	P&P stage 4. RIH with guns and Plug to KOP. Pumped down guns at 13.1 bpm @ 4,611 Psi, @240 fpm, 850 LT, pumped guns to16,990', Pulled up and got line tension and set plug @ 16,945'. LT prior to setting plug 1,886, LT after plug set 1,665, plug set time 53 sec. perforated at (16,950'- 16,953') (16,900' - 16,903')(16,823-16,826). Max pressure for pump down was 4,611 psi. Max rate for pump down- 13.1 bpm. Total Bbls pumped – 525. POOH w/tools all shots fired. Drop ball & turn over to Frac.
04:30	06:30	Start Frac stage #4. 1. Global Kick Outs set at 9400 psi. Pressure tested to 9400 psi. Job pumped Produced Water with 1.0% KCl . 2. Calculated 14 holes open, 1125 psi perf friction, 536 psi NWB as per FracPro.3. 30/50 Ran long. Operator overestimated how much was in hopper and T-Belt at end of stage. Ran approx. 10,000 lbs heavy. ball Seat Stage Pressures and Rate: 4575 psi @ 14.7 bpm , 4575 psi Pressure before Seating , 4575 psi Pressure after Seating.WG-36-4.7% (122.7), BC-200-3.5% (7.3), BA-20-15.6% (6.5), MO-67-6.1% (6.4), Vicon NF-5% (13.4), FE-2A-16% (6.3), BE-9-17% (8.2)
06:30	10:00	JW wireline Jumped Sheave kinked wireline and will have to replace Sheave and cut 400' of wireline and re-head. before RIH w/ stage #5 P&P.
10:00	12:30	Plug and Perf: Stage #5 RIH with guns and Plug to KOP. pumped down guns at 13.3 bpm @ 4703 Psi, @250 fpm, 880 LT, pumped guns to 16,800, Pulled up and got line tension and set plug. Line tension prior to setting plug 1869, line tension after plug set 1630, plug set time 1min30secs. POH and perf'ed at (16,725' - 16,728') (16,660' - 16,663') (16,600' - 16,603'). POOH with tools, max pressure for pump down: 4703 Max rate for pump down- 13.3bpm. Total BBls pumped-415.8. POOH W/Wireline all shots fired, Turn well over to Frac
12:30	15:30	Start Frac stage #5 Global Kick Outs set at 9730 psi. Pressure tested to 10490 psi. Job pumped Produced Water.2. Calculated 21 holes open, 1085 psi perf friction, 600 psi NWB as per FracPro.3. Able to get to 60 bpm with no problems.4. Good job execution by the crew, all proppant placed.Ball Seat Stage Pressures and Rate: 5252 psi @ 14.7 bpm , 4773 psi Pressure before Seating , 5247 psi Pressure after Seating WG-36-13.8% (323.2), BC-200-2.2% (3.4), CL-31-12.3% (2.8) MO-67-2.9% (2.2), MC S-2510T-4.5% (3.9) Vicon NF -11.4% (32.3), Losurf 300D-5% (8.9) Cat 3/4-22.4% (6.6), BE-9-7.9% (4.2)
15:30	17:30	Plug and Perf: Stage #6. RIH with guns and Plug to KOP. pumped down guns at 13.1 bpm @ 4418 Psi, @245 fpm, 870 LT, pumped guns to 16,572', Pulled up and got line tension and set plug. Line tension prior to setting plug 1907, line tension after plug set 1705, plug set time 1min40secs. POH and perf'ed at (16,505'-16508') (16,421'-16,424'). POOH with tools, max pressure for pump down: 4492 Max rate for pump down- 13.2 bpm. Total BBls pumped-411. POOH W/Wireline all shots fired.
17:30	18:30	Weatherford Grease all valves on Frac Stack
18:30	20:30	Drop ball & Start Frac stage #6, Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. Calculated 17 holes open, 1700 psi perf friction, 248 psi NWB as per FracPro. CFT 1200 - 13 cups Protechnics tracer. Ball Seat Stage Pressures and Rate: 5169 psi @ 14.5 bpm , 4528 psi Pressure before Seating , psi Pressure after Seating, WG-36-4.9% (80.1), BC-200-3.6% (3.8), FR-76-3.3% (1.2),BA-20-4.7% (1.2), MC S-2510T-4.2% (3) Losurf 300D-4.2% (5.9), FE-2A-6.6% (2.9), BE-9-4.8% (2)

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
20:30	23:00	Plug and Perf: Stage #7, RIH with guns and Plug to KOP. Pumped down guns at 12.1 bpm @ 4,209 Psi, @220 fpm, 830 LT, pumped guns to 16,380', Pulled up and got line tension and set plug @16,340'. Line tension prior to setting plug 1,870, line tension after plug set 1,640, plug set time 50secs. POOH and perforated at (16,282'-16,285') (16,200'-16,203'). POOH with tools, max pressure for pump down: 4,209 Max rate for pump down- 12.2 bpm. Total BBls pumped-434. POOH W/Wireline all shots fired, Turn well over to Frac
23:00	00:00	Start Frac stage #7

Report Start Date	Report End Date	24hr Activity Summary
12/1/2014	12/2/2014	Frac stages 3,4,5,& 6. P&P stages 4,5,6, &7.

Start Time	End Time	Comment
00:00	00:30	Start Frac stage #7, Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. Calculated 17 holes open, 766 psi perf friction, 1207 psi NWB as per FracPro.CFT 1300 - 15 cups Protechnics tracer. WG-36-4.9% (80.4), FR-76-2.9% (1), MC S-2510T-4.4% (3) Vicon NF-4% (8.1), Losurf 300D-4.4% (6), BE-9-2.9% (1.2)
00:30	02:30	Plug and Perf: Stage #8, RIH with guns and Plug to KOP. Pumped down guns at 14 bpm @ 4,449 Psi, @250 fpm, 900 LT, pumped guns to 16,195', Pulled up and got line tension and set plug @16,168'. Line tension prior to setting plug 1,870, line tension after plug set 1,650, plug set time 68 secs. POOH and perforated at (16,104'-16,107') (16,040'-16,043'). POOH with tools, max pressure for pump down: 4,449 Max rate for pump down- 14 bpm. Total Bbls pumped- 432. POOH W/Wireline all shots fired, Turn well over to Frac
02:30	04:30	Start Frac stage #8 Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. Calculated 15 holes open, 1087 psi perf friction, 671 psi NWB as per FracPro. 14.5 cups 1300 CFT Protechnics. BC-200-2.8% (3), FR-76-4.6% (1.6), CL-31-7.4% (1.2), MC S-2510T-4.8% (3.3) Vicon NF-4% (8), Losurf 300D-4.1% (5.6)FE-2A-8.1% (3.3), BE-9-3.4% (1.4)
04:30	06:30	Plug and Perf: Stage #9, RIH with guns and Plug to KOP. pumped down guns at 13.9 bpm @ 4340 Psi, @250 fpm, 900 LT, pumped guns to 15,996', Pulled up and got line tension and set plug. Line tension prior to setting plug 1960, line tension after plug set 1600, plug set time 1min30secs. POH and perf'ed at (15,940'-15,943') (15,880'-15,883') (15,820'-15,823'). POOH with tools, max pressure for pump down:4340 Max rate for pump down- 14bpm. Total BBls pumped-438.5. POOH W/Wireline all shots fired, Turn well over to Frac
06:30	08:30	Start Frac stage #9, 1. Global Kick Outs set at 9500 psi. Pressure tested to 10450 psi. Job pumped Produced Water. 2. Calculated 22 holes open, 988 psi perf friction, 885 psi NWB as per FracPro. 3. Good job execution by the crew, all sand placed in formation. Ball Seat Stage Pressures and Rate: 5575 psi @ 15.2 bpm , 4723 psi Pressure before Seating , 5590 psi Pressure after Seating BC-200-2.9% (4.7), MO-67-2.3% (1.9), MC S-2510T-4.7% (4) Vicon NF-4.3% (11.8), Losurf 300D-4.7% (8), FE-2A-6.7% (3.1), BE-9-4.7% (2.4)
08:30	10:30	Plug and Perf: Stage #10 RIH with guns and Plug to KOP. pumped down guns at 13.2 bpm @ 4206 Psi, @250 fpm, 915 LT, pumped guns to 15,670', Pulled up and got line tension and set plug. Line tension prior to setting plug 1820, line tension after plug set 1545, plug set time 1min15secs. POH and perf'ed at (15,620'-15,623') (15,550'-15,553') (15,480'-15,483'), POOH with tools, max pressure for pump down: 4206, Max rate for pump down- 13.2bpm. Total BBls pumped-386.8. . POOH W/Wireline all shots fired, Turn well over to Frac

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
10:30	13:00	Start Frac stage #10, 1. Global Kick Outs set at 9500 psi. Pressure tested to 10533 psi. Job pumped Produced Water.2. Calculated 20 holes open, 1188 psi perf friction, 693 psi NWB as per FracPro.3. Did not see a 200 psi loss across the 15 minute shutdown. 4. Good job execution by the crew, all sand placed. 5. Minor rate fluctuation during middle of job, rate loss 1 bpm or less. Lined out for remainder of job.Ball Seat Stage Pressures and Rate: 4900 psi @ 15.1 bpm , 4300 psi Pressure before Seating , 4910 psi Pressure after Seating. FR-76-5.2% (2), CL-31-4.3% (1) MC S-2510T-3.7% (3.2) Losurf 300D-3.1% (5.3)FE-2A-5% (2.2), BE-9-4.1% (2.1)
13:00	15:30	Plug and Perf: Stage #11 RIH with guns and Plug to KOP. pumped down guns at 13.6 bpm @ 4109 Psi, @246 fpm, 915 LT, pumped guns to 15,436', Pulled up and got line tension and set plug. Line tension prior to setting plug 1730, line tension after plug set 1458, plug set time 31secs. POH and perf'ed at (15,411'-15,414') (15,341'-15,344') (15,281'-15,284'), POOH with tools, max pressure for pump down: 4109, Max rate for pump down- 13.6bpm. Total BBls pumped-385.5 . POOH W/Wireline all shots fired, Turn well over to Frac
15:30	16:00	Weatherford Greasing 7 1/16" Frac stack
16:00	17:30	Start Frac stage #11 (Chemical pump down 45 mins, resume frac with no other issues. Fracing stage #11 at present.) 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 21 holes open, 1186 psi perf friction, 350 psi NWB as per FracPro. 3. Lost the mixing bowl on the Growler at the end of 1.5 ppa sand, staged and dropped rate to see if it could recover. Gel was essentially gone, cut prop and flushed the well. Down 45 minutes.
17:30	18:15	Chemical blending pump down, repaired and continue with frac of stage #11 with no other issues.
18:15	19:30	Finisht Frac stage #11 Continue frac of stage #11 (Chemical pump down 45 mins, resume frac with no other issues. Fracing stage #11 at present.) 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 21 holes open, 1186 psi perf friction, 350 psi NWB as per FracPro. 3. Lost the mixing bowl on the Growler at the end of 1.5 ppa sand, staged and dropped rate to see if it could recover. Gel was essentially gone, cut prop and flushed the well. Down 45 minutes. Continue frac stage #11 4. Had a dip in prop con on 1.5 ppa stage, able to recover. Hopper dropped too low. 5. Remainder of the job went well with all proppant placed. Ball Seat Stage Pressures and Rate: 4770 psi @ 15.2 bpm , 4200 psi Pressure before Seating , 4775 psi Pressure after Seating WG-36-4.6% (143.5), BC-200-3.6% (8), FR-76-2.7% (1.3),BA-20-3.2% (1.6), CL-31-3.7% (1.3), MO-67-3.1% (3.5), Losurf 300D-4.4% (9.6), BE-9-3.3% (2.2)
19:30	22:00	Plug and Perf: Stage #12 RIH with guns and Plug to KOP. pumped down guns at 14.1 bpm @ 4131 Psi, @238 fpm, 958 LT, pumped guns to 15,236', Pulled up and got line tension and set plug. Line tension prior to setting plug 1764, line tension after plug set 1526, plug set time 55 secs. POH and perf'ed at (15,216'-15,219') (15,141'-15,144') (15,065'-15,068'), POOH with tools, max pressure for pump down: 4131, Max rate for pump down- 14.1 bpm. Total BBls pumped-386.02. POOH W/Wireline all shots fired, Turn well over to Frac.

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
22:00	00:00	Start Frac stage #12 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 20 holes open, 1055 psi perf friction, 335 psi NWB as per FracPro. 3. 100 Mesh bin emptied late resulting in longer 1 ppg 100 Mesh stage. 4. Stage went well with all proppant placed. Ball Seat Stage Pressures and Rate: 4842 psi @ 14.9 bpm , 4441 psi Pressure before Seating , 4842 psi Pressure after Seating WG-36-3.7% (83.6), BC-200-2.5% (4), FR-76-4.2% (1.8),BA-20-4.1% (1.5), Losurf 300D-3.6% (6.5), FE-2A-3.1% (1.5), BE-9-2.1% (1.1)

Report Start Date	Report End Date	24hr Activity Summary
12/2/2014	12/3/2014	Frac stages 13,14,15,16,17,18,19 P&P stages 13,14,15,16,17,18,19

Start Time	End Time	Comment
00:00	00:30	Finish stage #12 frac.
00:30	02:45	Plug and Perf: Stage #13 RIH with guns and Plug to KOP. pumped down guns at 12.1 bpm @ 4,161 Psi, @234 fpm, 890 LT, pumped guns to 15,021', Pulled up and got line tension and set plug. Line tension prior to setting plug 1722, line tension after plug set 1,460, plug set time 46 secs. POH and perf'ed at (14,985'-14,988') (14,910'-14,913') (14,834'-1,837'), POOH with tools, max pressure for pump down: 4,161, Max rate for pump down 12.1 bpm. Total BBls pumped 331.40, POOH W/Wireline all shots fired, Turn well over to Frac.
02:45	05:00	Start Frac stage #13. Global Kick outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water.2. Calculated 24 holes open, 28 psi perf friction, 697 psi NWB as per FracPro.3. Stage went well with all proppant placed.4. Protechnics pumped 19.5 cups of FTP 1600.Ball Seat Stage Pressures and Rate: 4218 psi @ 15 bpm , 4115 psi Pressure before Seating , 4218 psi Pressure after Seating, FR-76-4.6% (1.7), MC S-2510T-3.9% (3.2) Vicon NF-4.4% (11.1), Losurf 300D-4% (6.6), FE-2A-4.2% (1.8), BE-9-3.4% (1.7).
05:00	07:00	Plug and Perf: Stage #14 RIH with guns and Plug to KOP. pumped down guns at 12 bpm @ 4,043 Psi, @240 fpm, 900 LT, pumped guns to 14,794' Pulled up and got line tension and set plug. Line tension prior to setting plug 1642, line tension after plug set 1,390, plug set time 1min. POH and perf'ed at (14,754'-14,757') (14,679'-14,682') (14,603'-14,606'), POOH with tools, max pressure for pump down: 4,050, Max rate for pump down 12.1 bpm. Total BBls pumped 316, POOH W/Wireline all shots fired, Turn well over to Frac.
07:00	09:30	Start Frac Stage #14. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 23 holes open, 765 psi perf friction, 145 psi NWB as per FracPro. 3. Good job execution by the crew, all sand pumped. Ball Seat Stage Pressures and Rate: 4212 psi @ 15.8 bpm , 4053 psi Pressure before Seating , 4220 psi Pressure after Seating WG-36-3.1% (69.4), CL-31-6.3% (1.5) MO-67-2% (1.6), Losurf 300D-2.6% (4.2) BE-9-3.7% (1.8)
09:30	11:30	Plug and Perf: Stage #15 RIH with guns and Plug to KOP. pumped down guns at 14.1 bpm @ 3,921 Psi, @256 fpm, 950 LT, pumped guns to 14,537' Pulled up and got line tension and set plug @14,551'. Line tension prior to setting plug 1,819, line tension after plug set 1,540, plug set time 1min 25 sec. POH and perf'ed at (14,523'-14,526') (14,448'-14,451') (14,372'-14,375'), POOH with tools, max pressure for pump down: 3,921, Max rate for pump down 14.1 bpm. Total BBls pumped 303, POOH W/Wireline all shots fired, Turn well over to Frac.

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
11:30	13:30	Start Frac Stage #15. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10480 psi. Job pumped Produced Water. 2. Calculated 24 holes open, 751 psi perf friction, 310 psi NWB as per FracPro. 3. Good job execution by the crew, all proppant placed. Ball Seat Stage Pressures and Rate: 4225 psi @ 15.5 bpm , 4080 psi Pressure before Seating , 4228 psi Pressure after Seating WG-36-5.9% (129.7), BC-200-5.2% (8.2), FR-76-5.1% (1.8),BA-20-6.7% (2.4), CL-31-6.3% (1.5) MO-67-2% (1.6), MC S-2510T-5.6% (4.4) Vicon NF-7.5% (19.5), Losurf 300D-5.1% (8.1) FE-2A-4.4% (1.8), BE-9-4.9% (2.3)
13:30	15:30	Plug and Perf: Stage #16 RIH with guns and Plug to KOP. pumped down guns at 13 bpm @ 3,930 Psi, @250 fpm, 900 LT, pumped guns to 14,340' Pulled up and got line tension and set plug @14,330'. Line tension prior to setting plug 1,830, line tension after plug set 1,560, plug set time 1min. POH and perf'ed at (14,292'-14,295') (14,217'-14,220') (14,141'-14,144'), POOH with tools, max pressure for pump down: 3,930, Max rate for pump down 13.1 bpm. Total BBls pumped 315.
15:30	16:30	Grease Frac Tree.
16:30	18:30	Drop Ball & turn over to frac. Start Frac Stage #16. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 21 holes open, 909 psi perf friction, 128 psi NWB as per FracPro. 3. Gel ran about 200 lbs low, early time visc was running 1-2 cp light. 4. Good job execution by the crew, all sand placed. Ball Seat Stage Pressures and Rate: 4376 psi @ 15.8 bpm , 4163 psi Pressure before Seating , 4380 psi Pressure after Seating WG-36-10.5% (221.8), BC-200-4% (6.2), FR-76-3.1% (1), MO-67-3.8% (2.9), Vicon NF-6.1% (15.3), Losurf 300D-4.9% (7.5), FE-2A-3.4% (1.3), BE-9-4.9% (2.2)
18:30	20:30	Plug and Perf: Stage #17 RIH with guns and Plug to KOP. pumped down guns at 12.1 bpm @ 3,869 Psi, @208 fpm, 857 LT, pumped guns to 14,094', Pulled up and got line tension and set plug. Line tension prior to setting plug 1,634, line tension after plug set 1,383, plug set time 39 secs. POH and perf'ed at (14,061'-14,064') (13,986'-13,989') (13,910'-13,913'), POOH with tools, max pressure for pump down: 9,936, Max rate for pump down 12.1 bpm. Total BBls pumped 317.73, POOH W/Wireline all shots fired, Turn well over to Frac.
23:00	01:00	frac 17
20:30	23:00	Start Frac Stage #17. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 27 holes open, 586 psi perf friction, 76 psi NWB as per FracPro. 3. Stage went well with all proppant placed. 4. ProTechnics pumped 18 Cups of CFT 1900. BC-200-4% (6.4), FR-76-3.5% (1.2), MO-67-3.5% (2.8), MC S-2510T-2.6% (2) Vicon NF-3.9% (9.5), Losurf 300D-4.5% (7) FE-2A-4.2% (1.6), BE-9-4.7% (2.2)
02:00	02:00	P&P 18
01:00	02:00	RIH to P&P Stage # 18.

Report Start Date	Report End Date	24hr Activity Summary
12/3/2014	12/4/2014	Frac stages 13,14,15,16,17,18,19 P&P stages 13,14,15,16,17,18,19

Start Time	End Time	Comment
00:00	01:00	Plug and Perf: Stage #18 RIH with guns and Plug to KOP. pumped down guns at 12.1 bpm @ 4,037 Psi, @247 fpm, 880 LT, pumped guns to 13,853', Pulled up and got line tension and set plug. Line tension prior to setting plug 1,564, line tension after plug set 1,333, plug set time 64 secs. POH and perf'ed at (13,830'-13,833') (13,755'-13,758') (13,679'-13,682'), POOH with tools, max pressure for pump down: 4,037, Max rate for pump down 12.1 bpm. Total BBls pumped 278.27, POOH W/Wireline all shots fired, Turn well over to Frac.

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
01:00	03:00	Start Frac Stage # 18. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 24 holes open, 714 psi perf friction, 37 psi NWB as per FracPro. 3. Stage went well with all proppant placed. 4. ProTechnics pumped 17 cups of CFT 2000 during the stage. Ball Seat Stage Pressures and Rate: 4286 psi @ 14.9 bpm , 4102 psi Pressure before Seating , 4286 psi Pressure after Seating. BC-200-4.3% (6.8), FR-76-3.8% (1.3), MO-67-2.7% (2.1), MC S-2510T-4.2% (3.3) Vicon NF-3.8% (9.4), Losurf 300D-4.2% (6.5) BE-9-2.2% (1)
03:00	05:00	Plug and Perf: Stage #19 RIH with guns and Plug to KOP. pumped down guns at 12.1 bpm @ 4,139 Psi, @236 fpm, 913 LT, pumped guns to 13,630', Pulled up and got line tension and set plug. Line tension prior to setting plug 1,485, line tension after plug set 1,201, plug set time 90 secs. POH and perf'ed at (13,599'-13,602') (13,524'-13,527') (13,448'-13,451'), POOH with tools, max pressure for pump down: 4,139, Max rate for pump down 12.1 bpm. Total BBls pumped 265.12, POOH W/Wireline. All shots fired. Drop ball & turn over to Frac.
05:00	07:00	Start Frac Stage #19. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 25 holes open, 713 psi perf friction, 58 psi NWB as per FracPro. 3. Observed a pressure build with 1 ppg 100 mesh on formation and again with 1.5 ppg 30/50 on formation. 4. Stage went well with all proppant placed. Ball Seat Stage Pressures and Rate: 4262 psi @ 15.4 bpm , 4135 psi Pressure before Seating , 4262 psi Pressure after Seating. WG-36-11.8% (260.5), BC-200-5% (7.8), FR-76-3.1% (1),BA-20-4.1% (1.5), MO-67-3.9% (3.1), MC S-2510T-4.2% (3.3) Vicon NF-4.2% (10.2), Losurf 300D-4.7% (7.4) Cat 3/4-5.3% (1.2), BE-9-4.3% (2)
07:00	09:00	Plug and Perf: Stage #20 RIH with guns and Plug to KOP. pumped down guns at 12.1 bpm @ 3,844 Psi, @245 fpm, 905 LT, pumped guns to 13,395' Pulled up and got line tension and set plug @13,396'. Line tension prior to setting plug 1,593, line tension after plug set 1,370, plug set time 47 sec. POH and perf'ed at (13,368'-13,371') (13,293'-13,296') (13,217'-13,220'), POOH with tools, max pressure for pump down: 3,844, Max rate for pump down 13.1 bpm. Total BBls pumped 269. All shots fired. Drop ball & turn over to Frac.
09:00	11:00	Start Frac Stage #20. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 26 holes open, 705 psi perf friction, 298 psi NWB as per FracPro. 3. Good job execution by the crew, all sand placed. Ball Seat Stage Pressures and Rate: 4300 psi @ 15.8 bpm , 4015 psi Pressure before Seating , 4311 psi Pressure after Seating. WG-36-5% (104.6), BC-200-4.9% (7.4), FR-76-25.8% (7.2), MO-67-3.7% (2.8), MC S-2510T-5% (3.8) Vicon NF-9.8% (24.5), Losurf 300D-4.4% (6.7) FE-2A-6.7% (2.4), Cat 3/4-7.4% (1.7),
11:00	12:30	: Plug and Perf: Stage #21 RIH with guns and Plug to KOP. pumped down guns at 13 bpm @ 3,921 Psi, @260 fpm, 905 LT, pumped guns to 13,195' Pulled up and got line tension and set plug @13,165'. Line tension prior to setting plug 1,638, line tension after plug set 1,408, plug set time 50 sec. POH and perf'ed at (13,137'-13,140') (13,062'-13,065') (12,986'-12,989'), POOH with tools, max pressure for pump down: 3,921, Max rate for pump down 13 bpm. Total BBls pumped 259. All shots fired. Shut HCR valve.
12:30	13:30	Grease Frac Tree.
13:30	15:30	Start Frac Stage #21. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 23 holes open, 969 psi perf friction, 405 psi NWB as per FracPro. 3. Gel coming during job a 1-2 points light. XL samples looked good throughout. 4. Good job execution by the crew, all sand placed. Ball Seat Stage Pressures and Rate: 4472 psi @ 15.5 bpm , 4126 psi Pressure before Seating , 4475 psi Pressure after Seating BC-200-2.1% (3.3), FR-76-13.7% (3.6),BA-20-14.4% (5.3), MC S-2510T-4.3% (3.3) Vicon NF-8.4% (23), Losurf 300D-3.6% (5.7) FE-2A-17.1% (5.5), Cat 3/4-30.7% (8), BE-9-4.3% (2)

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
15:30	17:00	Plug and Perf: Stage #22 RIH with guns and Plug to KOP. pumped down guns at 13.1 bpm @ 4,033 Psi, @254 fpm, 900 LT, pumped guns to 12,950' Pulled up and got line tension and set plug @12,934'. Line tension prior to setting plug 1,850, line tension after plug set 1,600, plug set time 19 sec. POH and perf'ed at (12,906'-12,909') (12,831'-12,834') (12,755'-12,758'), POOH with tools, max pressure for pump down: 4,033, Max rate for pump down 13.1 bpm. Total BBls pumped 254. POOH W/tools & check guns. Drop ball & turn over to Frac
17:00	19:00	Frac Stage #22, 1. Global Kick Outs set at 9500 psi. Pressure tested to 10400 psi. Job pumped Produced Water. 2. Calculated 25 holes open, 853 psi perf friction, 663 psi NWB as per FracPro. 3. Lost a pump due to power end problem, made up rate with remaining 9 pumps. 4. Stage treated well with all proppant placed. Ball Seat Stage Pressures and Rate: 4742 psi @ 15.2 bpm , 4343 psi Pressure before Seating , 4744 psi Pressure after Seating, WG-36-2.5% (43.4), BC-200-4.7% (7.1), FR-76-3.8% (1.2),BA-20-3.6% (1.3), MO-67-4.7% (3.6), MC S-2510T-3% (2.3) Vicon NF-4.5% (10.8), Losurf 300D-4.3% (6.6), FE-2A-2.7% (1), BE-9-3.9% (1.8)
19:00	21:00	Plug and Perf: Stage #23 RIH with guns and Plug to KOP. pumped down guns at 11.0 bpm @ 3,938 Psi, @231 fpm, 820 LT, pumped guns to 12,717', Pulled up and got line tension and set plug. Line tension prior to setting plug 1,620, line tension after plug set 1,440, plug set time 30 secs. POH and perf'ed at (12,675'-12,678') (12,600'-12,603') (12,495'-12,498'), POOH with tools, max pressure for pump down: 3,938, Max rate for pump down 11.0 bpm. Total BBls pumped 246.28, POOH W/Wireline all shots fired, Turn well over to Frac.
21:00	23:30	Start Frac Stage #23, 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 24 holes open, 422 psi perf friction, 613 psi NWB as per FracPro. 3. Stage went well with all proppant placed. Ball Seat Stage Pressures and Rate: 4716 psi @ 14.6 bpm , 4300 psi Pressure before Seating , 4716 psi Pressure after Seating, WG-36-2.6% (45.3), BC-200-4.2% (6.5), BA-20-3.9% (1.3), MO-67-3.5% (2.7), Vicon NF-3.5% (7.9), Losurf 300D-4.6% (6.8)
23:30	00:00	Start in hole to P&P stage #24 at report time,

Report Start Date	Report End Date	24hr Activity Summary
12/4/2014	12/5/2014	Frac stages 24,25,26,27,28 & 29 P&P stages 24,25,26,27,28,29 & 30

Start Time	End Time	Comment
00:00	01:30	Plug and Perf: Stage #24 RIH with guns and Plug to KOP. pumped down guns at 12.0 bpm @ 3,980 Psi, @235 fpm, 829 LT, pumped guns to 12,462', Pulled up and got line tension and set plug. Line tension prior to setting plug 1,540, line tension after plug set 1,278, plug set time 54 secs. POH and perf'ed at (12,444'-12,447') (12,369'-12,372'), POOH with tools, max pressure for pump down: 3,980, Max rate for pump down 12.0 bpm. Total BBls pumped 215.10, POOH W/Wireline all shots fired, Turn well over to Frac.
01:30	03:30	Start Frac Stage #24, 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 17 holes open, 1216 psi perf friction, 370 psi NWB as per FracPro. 3. Hopper dropped off during 0.5 ppg 100 mesh resulting in a dip in proppant concentration.WG-36-4.8% (70.5), BC-200-4.7% (5.2), FR-76-4.1% (1.2), MO-67-3.8% (2.1), MC S-2510T-4.2% (2.6) Vicon NF-4.8% (8.9), Losurf 300D-4% (4.9), BE -9-4.8% (1.7).

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
03:30	05:00	Plug and Perf: Stage #25 RIH with guns and Plug to KOP. pumped down guns at 12.0 bpm @ 4,293 Psi, @230 fpm, 820 LT, pumped guns to 12,248', Pulled up and got line tension and set plug. Line tension prior to setting plug 1,570, line tension after plug set 1,270, plug set time 53 secs. POH and perf'ed at (12,293'-12,296') (12,196'-12,199') (12,062'-12,065'), POOH with tools, max pressure for pump down: 4,293, Max rate for pump down 12.0 bpm. Total BBls pumped 196.55, POOH W/Wireline all shots fired, Turn well over to Frac.
05:00	07:00	Start Frac Stage #25. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 24 holes open, 576 psi perf friction, 352 psi NWB as per FracPro. 3. Stage went well with all proppant placed. Ball Seat Stage Pressures and Rate: 4521 psi @ 14.9 bpm , 4249 psi Pressure before Seating , 4521 psi Pressure after Seating WG-36-20.1% (332.9), BC-200-4.5% (7.2), BA-20-3.6% (1.2), MO-67-3.9% (3.1), MC S-2510T-4.1% (3.1) Vicon NF-4.4% (10.2), Losurf 300D-3.5% (5.2) FE-2A-4.1% (1.4), BE-9-2.4% (1.1)
07:00	08:30	P&P Stage #26. RIH with guns and Plug to KOP. pumped down guns at 13.1 bpm @ 4,046 Psi, @250 fpm, 910 LT, pumped guns to 12,020' Pulled up and got line tension and set plug @12,010'. Line tension prior to setting plug 1,414, line tension after plug set 1,270, plug set time 56 sec. POH and perf'ed at (11,984'-11,987') (11,924'-11,927') (11,868'-11,871'), POOH with tools, max pressure for pump down: 4,046, Max rate for pump down 13.1 bpm. Total BBls pumped 201. POOH W/tools. All shots fired . Drop ball & turn over to Frac.
08:30	10:30	Start Frac Stage #26. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10450 psi. Job pumped Produced Water. 2. Calculated 26 holes open, 683 psi perf friction, 747 psi NWB as per FracPro. 3. A few minor pump problems up front with the rate, was able to line out at 60 bpm for job. 4. Had a quick sand spike on 1.5 ppa stage, fat fingered number in the van. 5. Overall good job execution by the crew, all sand placed. Ball Seat Stage Pressures and Rate: 5170 psi @ 16.2 bpm , 4558 psi Pressure before Seating , 5179 psi Pressure after Seating. WG-36-9.8% (170.9), BC-200-4% (6.2), BA-20-3% (1), MO-67-4% (3.1), MC S-2510T-5.1% (3.8) Vicon NF-4.5% (10.8), Losurf 300D-4.3% (6.4) BE-9-4.7% (2.1)
10:30	12:00	Plug and Perf: Stage #27 RIH with guns and Plug to KOP. pumped down guns at 12.6 bpm @ 4,165 Psi, @257 fpm, 892 LT, pumped guns to 11,850' Pulled up and got line tension and set plug @11,835'. Line tension prior to setting plug 1,595, line tension after plug set 1,396, plug set time 44 sec. POH and perf'ed at (11,804'-11,807') (11,744'-11,747') (11,684'-11,687'), POOH with tools, max pressure for pump down: 4,165, Max rate for pump down 12.6 bpm. Total BBls pumped 184. POOH w/ tools. All shots fired. Shut HCR.
12:00	13:00	Grease Frac Tree.
13:00	15:00	Start Frac Stage # 27. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10460 psi. Job pumped Produced Water. 2. Calculated 27 holes open, 450 psi perf friction, 1092 psi NWB as per FracPro. 3. Good job execution, all sand placed. 4. Gel continues to run heavy, visc is still running 16-17 cp at 75F. WG-36-17.9% (305.8), BC-200-5.3% (8.1), FR-76-4.2% (1.3),BA-20-3.6% (1.2), MO-67-4.6% (3.5), MC S-2510T-3.3% (2.5) Vicon NF-5.3% (12.5), Losurf 300D-4.7% (7.1) FE-2A-3.4% (1.2), BE-9-5.2% (2.3)
15:00	16:30	Plug and Perf: Stage #28 RIH with guns and Plug to KOP. pumped down guns at 12.8 bpm @ 4,160 Psi, @264 fpm, 928 LT, pumped guns to 11,650' Pulled up and got line tension and set plug @11,630'. Line tension prior to setting plug 1,301, line tension after plug set 1,158, plug set time 67 sec. POH and perf'ed at (11,605'-11,608') (11,550'-11,553') (11,475'-11,478'), POOH with tools, max pressure for pump down: 4,160, Max rate for pump down 12.8 bpm. Total BBls pumped 169. POOH w/ tools. All shots fired . Drop ball & turn over to frac.

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
16:30	18:30	Start Frac Stage #28. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 25 holes open, 808 psi perf friction, 647 psi NWB as per FracPro. 3. Good job execution, all sand placed. Ball Seat Stage Pressures and Rate: 4675 psi @ 15 bpm , 4300 psi Pressure before Seating , 4690 psi Pressure after Seating. WG-36-4.6% (80.8), BC-200-2.7% (4.3), FR-76-4.2% (1.2),BA-20-4.5% (1.5), CL-31-4.6% (1.1) MO-67-5% (4), MC S-2510T-4.7% (3.4) Vicon NF-4.8% (11), Losurf 300D-4.7% (6.7) FE-2A-3.7% (1.2), BE-9-4.7% (2)
18:30	20:00	Plug and Perf: Stage #29 RIH with guns and Plug to KOP. pumped down guns at 12.9 bpm @ 4,100 Psi, @ 288 fpm, 870 LT, pumped guns to 11,450' Pulled up and got line tension and set plug @11,410'. Line tension prior to setting plug 1,290, line tension after plug set 1,120, plug set time 69 sec. POOH and perf'ed at (11,400'-403') (11,325'-328') (11,250'-253'), POOH with tools, max pressure for pump down: 4,100, Max rate for pump down 12.9 bpm. Total BBls pumped 150. POOH w/ tools. All shots fired . Drop ball & turn over to frac. To Frac Stage #29.
20:00	22:00	Frac stage #29 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 23 holes open, 724 psi perf friction, 357 psi NWB as per FracPro. 3. Stage treated well with all proppant placed. 4. Had rate fluctuate shortly after going to flush. WG-36-3.9% (68), BC-200-4.2% (6.5), FR-76-4.5% (1.3),BA-20-3.5% (1.1), MO-67-4.9% (3.8), MC S-2510T-4.5% (3.1) Losurf 300D-4.5% (6.3) FE-2A-4.1% (1.3), BE-9-4.1% (1.7)
22:00	23:30	Plug and Perf: Stage #30 RIH with guns and Plug to KOP. pumped down guns at 12.7 bpm @ 4,128 Psi, @ 302 fpm, 834 LT, pumped guns to 11,190' Pulled up and got line tension and set plug @11,170'. Line tension prior to setting plug 1,320, line tension after plug set 1,160, plug set time 65 sec. POOH and perf'ed at (11,175'-178') (11,100'-103') (11,025'-028'), POOH with tools, max pressure for pump down: 4,128, Max rate for pump down 12.7 bpm. Total BBls pumped 130. POOH w/ tools. All shots fired . Drop ball & turn over to frac. To Frac Stage #30.
23:30	00:00	Frac stg #30

Report Start Date	Report End Date	24hr Activity Summary
12/5/2014	12/6/2014	Frac stgs 30,31,32,33 & 34. Perfed stgs 31,32,33,34 & 35

Start Time	End Time	Comment
00:00	01:30	Frac stg #30 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 21 holes open, 861 psi perf friction, 347 psi NWB as per FracPro. 3. Had rate fluctuating from the middle of 1.5 ppg to 2.5 ppg and again during flush. 4. Cat 3/4 had trouble lining out until 2.5 ppg and gel ran heavy throughout the stage. 5. Stage treated well with all proppant placed. Ball Seat Stage Pressures and Rate: 4591 psi @ 14.9 bpm , 4319 psi Pressure before Seating , 4591 psi Pressure after Seating. WG-36-16.7% (281.8), BC-200-4.8% (7.5), FR-76-4.6% (1.3),BA-20-5% (1.7), MO-67-4.2% (3.2), MC S-2510T-4.6% (3.2) Vicon NF-5.4% (12.2), Losurf 300D-5.3% (Cat 3/4-28.8% (6.1), BE-9-5% (2.1)
01:30	03:30	Plug and Perf: Stage #31 RIH with guns and Plug to KOP. pumped down guns at 13.1 bpm @ 3,950 Psi, @ 287 fpm, 880 LT, pumped guns to 10,955' Pulled up and got line tension and set plug @10,945'. Line tension prior to setting plug 1,280, line tension after plug set 1,115, plug set time 74 sec. POOH and perf'ed at (10,950'-953') (10,875'-878') (10,800'-803'), POOH with tools, max pressure for pump down: 3,950, Max rate for pump down 13.1 bpm. Total BBls pumped 82. POOH w/ tools. To Frac Stage #31.

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
03:30	06:00	Had to wait on stg #31 frac due to Halliburton working on horsepower. Start Frac Stage #31. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 25 holes open, 645 psi perf friction, 352 psi NWB as per FracPro. 3. Stage treated well with all proppant placed. 4. Pump operator unintentionally dropped rate just after staging to flush. Rate was completely recovered. 5. Gel ran heavy to get the correct visc. Ball Seat Stage Pressures and Rate: 4456 psi @ 14.8 bpm , 4183 psi Pressure before Seating , 4456 psi Pressure after Seating. WG-36-17.7% (292.5), BC-200-4.8% (7.6), CL-31-4.6% (1.1) MO-67-4.6% (3.7), MC S-2510T-3.7% (2.6) Vicon NF-5.2% (11.7), Losurf 300D-5.2% (7.3) FE-2A-4.8% (1.5), BE-9-4.2% (1.8)
06:00	07:00	Plug and Perf: Stage #32 RIH with guns and Plug to KOP. pumped down guns at 13.1 bpm @ 4,180 Psi, @ 258 fpm, 920 LT, pumped guns to 10,790' Pulled up and got line tension and set plug @10,756'. Line tension prior to setting plug 1,242, line tension after plug set 1,093, plug set time 40 sec. POOH and perf'ed at (10,725'-728') (10,675'-678') (10,578'-581'), POOH with tools, max pressure for pump down: 4,180, Max rate for pump down 13.1 bpm. Total BBls pumped 131. POOH w/ tools. All shot fired. Shut in HCR.
07:00	08:00	Grease Frac Tree.
08:00	10:00	Start Frac Stage #32. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 25 holes open, 728 psi perf friction, 736 psi NWB as per FracPro. 3. MO-67 tote was swapped before job start. Had XL confirmed and went to sand. Lost XL towards end of 1.5 ppa stage. Increased set point and regained XL. Will check tote after job. 4. Good job execution by the crew, all sand placed. Ball Seat Stage Pressures and Rate: 4890 psi @ 15.2 bpm , 4483 psi Pressure before Seating , 4895 psi Pressure after Seating WG-36-17% (284.2), FR-76-5.7% (1.6),BA-20-4.4% (1.5), CL-31-6.4% (1.5) MO-67-9.8% (10.7), MC S-2510T-5.4% (3.7) Vicon NF-5.8% (12.8), Losurf 300D-6.1% (8.5) BE-9-3.5% (1.4)
10:00	14:00	Ran in hole W/wireline & pumped down to 10,500' and lost communication W/CCL tried a few things to get it to work with no luck. Pooh W/tools & cut off 1000' of wireline. Fixed some wiring in truck. Checked everything on surface everything working like designed.
14:00	16:00	Plug and Perf: Stage #33 RIH with guns and Plug to KOP. pumped down guns at 12.9 bpm @ 4,439 Psi, @ 256 fpm, 899 LT, pumped guns to 10,565' Pulled up and got line tension and set plug @10,550'. Line tension prior to setting plug 1,246, line tension after plug set 1,063, plug set time 50 sec. POOH and perf'ed at (10,525'-528') (10,455'-458') (10,385'-388'), POOH with tools, max pressure for pump down: 4,439, Max rate for pump down 12.9 bpm. Total BBls pumped 131. POOH w/ tools. All shot fired. Drop ball & turn over to Frac.
16:00	18:00	Start Frac Stage #34. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 24 holes open, 751 psi perf friction, 740 psi NWB as per FracPro. 3. Had problems starting MO-67, dropped rate to trouble shoot. The tote was closed, re-prime the line and got going. Once good XL was established, proceeded with sand. The XL pad ran long before starting the 30/50. 4. Started to MO-67 at 1.5 gpt, pH started creeping higher during job. Backed off to a 1 gpt for the remainder of the job. 5. Overall good job execution by the crew, all sand placed. Ball Seat Stage Pressures and Rate: 4860 psi @ 14.9 bpm , 4610 psi Pressure before Seating , 4865 psi Pressure after Seating. WG-36-9.8% (183.4), BC-200-4.9% (8.5), FR-76-4.7% (1.3),BA-20-4.1% (1.5), MO-67-3.5% (3.8), MC S-2510T-4.7% (3.5) Vicon NF-4.3% (10.3), Losurf 300D-4.7% (7) FE-2A-3.6% (1.1), BE-9-2.9% (1.3)

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
18:00	19:30	Plug and Perf: Stage #34 RIH with guns and Plug to KOP. pumped down guns at 12.8 bpm @ 4,200 Psi, @ 286 fpm, 882 LT, pumped guns to 10,355' Pulled up and got line tension and set plug @10,310'. Line tension prior to setting plug 1,250 line tension after plug set 1,110, plug set time 75 sec. POOH and perf'ed at (10,315'-318') (10,245'-248') (10,175'-178'), POOH with tools, max pressure for pump down: 4,200, Max rate for pump down 12.8 bpm. Total BBls pumped 101. POOH w/ tools.
19:30	21:30	Frac stg #34 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 21 holes open, 892 psi perf friction, 28 psi NWB as per FracPro. 3. Stage went well with all proppant placed. Ball Seat Stage Pressures and Rate: 4802 psi @ 15.1 bpm , 4435 psi Pressure before Seating , 4802 psi Pressure after Seating. WG-36-17% (287.8), BC-200-4.9% (8), MO-67-4.4% (3.5), MC S-2510T-4.1% (2.9) Vicon NF-4.7% (10.6), Losurf 300D-4.4% BE-9-3.4% (1.5)
21:30	23:00	Plug and Perf: Stage #35 RIH with guns and Plug to KOP. pumped down guns at 12.8 bpm @ 4,200 Psi, @ 286 fpm, 882 LT, pumped guns to 10,355' Pulled up and got line tension and set plug @10,310'. Line tension prior to setting plug 1,250 line tension after plug set 1,110, plug set time 75 sec. POOH and perf'ed at (10,315'-318') (10,245'-248') (10,175'-178'), POOH with tools, max pressure for pump down: 4,200, Max rate for pump down 12.8 bpm. Total BBls pumped 101. POOH w/ tools.
23:00	00:00	Frac stg #35

Report Start Date	Report End Date	24hr Activity Summary
12/6/2014	12/7/2014	Frac Stgs 35,36,37,38,39,40 & 41. Perf Stgs 36,37,38,39,40 & 41. Set First kill plug.

Start Time	End Time	Comment
00:00	01:00	Frac Stg #35. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 22 holes open, 818 psi perf friction, 254 psi NWB as per FracPro. 3. Stage treated well with all proppant placed. 4. Had to drop a pump during flush to due to a broken pony rod. Ball Seat Stage Pressures and Rate: 4733 psi @ 15 bpm , 5380 psi Pressure before Seating , 4733 psi Pressure after Seating. WG-36-3.4% (68.2), BC-200-5.1% (8), MO-67-4.5% (3.5), MC S-2510T-4.5% (3.1) Vicon NF-4.6% (10.2), Losurf 300D-4.3% (5.9). FE-2A-4.4% (1.3), BE-9-2.9% (1.2)
01:00	02:30	Plug and Perf: Stage #36 RIH with guns and Plug to KOP. pumped down guns at 12.9 bpm @ 4,150 Psi, @ 308 fpm, 870 LT, pumped guns to 9,925' Pulled up and got line tension and set plug @9,910'. Line tension prior to setting plug 1,160 line tension after plug set 1,020, plug set time 56 sec. POOH and perf'ed at (9,858'-861') (9,797'-800') POOH with tools, max pressure for pump down: 4,150, Max rate for pump down 12.9 bpm. Total BBls pumped 76. POOH w/ tools.
02:30	05:00	Frac stg #36. Halliburton had issues with crosslinker before going to 30/50 sand had to shut down until the issue was resolved. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 18 holes open, 1061 psi perf friction, 374 psi NWB as per FracPro. 3. Could not get crosslinker going and had issues with MO-67 during pad. Shutdown and resolved the issues prior to going to 30/50. 4. Issue was resolved in ~45 mins. 5. 30/50 ran ~10,000 lbs long out of the mover. 6. Stage treated well. Ball Seat Stage Pressures and Rate: 4540 psi @ 15.1 bpm , 4224 psi Pressure before Seating , 4540 psi Pressure after Seating WG-36-26.6% (494.9), BC-200-5.1% (8.7), BA-20-3.3% (1.1), MO-67-5.1% (4.4), MC S-2510T-4.3% (3) Losurf 300D-4.3% (6) BE-9-3.9% (1.6)

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
05:00	07:00	Plug and Perf: Stage #37 RIH with guns and Plug to KOP. pumped down guns at 12.3 bpm @ 4,335 Psi, @ 258 fpm, 878 LT, pumped guns to 9,690' Pulled up and got line tension and set plug @9,740'. Line tension prior to setting plug 1,178 line tension after plug set 1,050, plug set time 76 sec. POOH and perf'ed at (9,672'-675') (9,600'-603')(9,521'-524') POOH with tools, max pressure for pump down: 4,335, Max rate for pump down 12.3 bpm. Total BBls pumped 77. POOH w/ tools. All shots fired. Drop ball & turn over to Frac.
07:00	09:00	Frac Stg #37. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 20 holes open, 867 psi perf friction, 136 psi NWB as per FracPro. 3. 20 cups 3700 CFT Protechnics tracer. WG-36-7.8% (140), BC-200-4.3% (6.8), BA-20-4.3% (1.4), MO-67-3.9% (3.1), MC S-2510T-4.2% (2.8) Vicon NF-4.2% (9.2), Losurf 300D-4.2% (5.6) BE-9-3.2% (1.3)
09:00	10:30	: Plug and Perf: Stage #38 RIH with guns and Plug to KOP. pumped down guns at 12.3 bpm @ 4,080 Psi, @ 252 fpm, 920 LT, pumped guns to 9,510' Pulled up and got line tension and set plug @9,490'. Line tension prior to setting plug 1,168 line tension after plug set 1,017, plug set time 46 sec. POOH and perf'ed at (9,441'-444') (9,366'-369')(9,290'-293') POOH with tools, max pressure for pump down: 4,080, Max rate for pump down 12.4 bpm. Total BBls pumped 62. POOH w/ tools. All shots fired. Shut HCR.
10:30	11:00	Grease Frac Tree.
11:00	12:30	Frac stg #38. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 25 holes open, 767 psi perf friction, 556 psi NWB as per FracPro. 3. 20 cups 3900 CFT Protechnics tracer. WG-36-13.8% (232.8), BC-200-4% (6.3), FR-76-5.3% (1.4),BA-20-4.1% (1.4), CL-31-5.9% (1.4) MO-67-3.4% (2.7), MC S-2510T-4.9% (3.3) Vicon NF-3.8% (8.4), Losurf 300D-4.9% (6.7) FE-2A-13.1% (3.4), Cat 3/4-4.8% (1), BE-9-3.4% (1.4)
12:30	14:00	Plug and Perf: Stage #39 RIH with guns and Plug to KOP. pumped down guns at 11.8 bpm @ 4,041 Psi, @ 245 fpm, 929 LT, pumped guns to 9,250' Pulled up and got line tension and set plug @9,238'. Line tension prior to setting plug 1,222 line tension after plug set 1,042, plug set time 60 sec. POOH and perf'ed at (9,210'-213') (9,137'-140')(9,059'-062') POOH with tools, max pressure for pump down: 4,041, Max rate for pump down 11.8 bpm. Total BBls pumped 48. POOH w/ tools. All shots fired. Drop ball & turn over to Frac.
14:00	16:00	Frac stg #39. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 27 holes open, 585 psi perf friction, 112 psi NWB as per FracPro. 3. 22 cups CFT 3900 Protechnics tracer. WG-36-7.9% (134.9), CL-31-6.5% (1.6) MO-67-2.9% (2.4), Vicon NF-4.3% (9.5), Losurf 300D-4.3% (5.8) Cat 3/4-6.7% (1.4), BE-9-4.7% (1.9)
16:00	17:30	Plug and Perf: Stage #40 RIH with guns and Plug to KOP. pumped down guns at 11 bpm @ 3,932 Psi, @ 248 fpm, 853 LT, pumped guns to 9,055' Pulled up and got line tension and set plug @9,020'. Line tension prior to setting plug 1,192 line tension after plug set 1,046, plug set time 24 sec. POOH and perf'ed at (8,979'-982') (8,904'-907')(8,828'-831') POOH with tools, max pressure for pump down: 3,932, Max rate for pump down 11 bpm. Total BBls pumped 37. POOH w/ tools. All shots fired. Drop ball & turn over to Frac.

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
17:30	19:30	Frac stg #40. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 25 holes open, 776 psi perf friction, 279 psi NWB as per FracPro. 3. Stage went well with all proppant. WG-36-18.4% (316.2), BC-200-4.6% (7.4), BA-20-4.7% (1.6), MO-67-4.1% (3.3), MC S-2510T-4.2% (2.8) Vicon NF-4.3% (9.5), Losurf 300D-4.2% (5.6). BE-9-4.8% (1.9)
19:30	21:00	Plug and Perf: Stage #41 RIH with guns and Plug to KOP. pumped down guns at 12 bpm @ 3,660 Psi, @ 260 fpm, 960 LT, pumped guns to 8,753' Pulled up and got line tension and set plug @ 8,776'. Line tension prior to setting plug 1,190 line tension after plug set 1,040, plug set time 81 sec. POOH and perf'ed at (8,748'-751') (8,673'-676')(8,612'-615') POOH with tools, max pressure for pump down: 3,660, Max rate for pump down 12 bpm. Total BBls pumped 34. POOH w/ tools.
21:00	22:45	Frac Stg #41. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped Produced Water. 2. Calculated 23 holes open, 738 psi perf friction, 219 psi NWB as per FracPro. 3. 100 Mesh emptied out late. 4. Lost prime to the blender during flush. Reduced rate to alleviate issue and successfully flush the well. Ball Seat Stage Pressures and Rate: 4166 psi @ 15.3 bpm , 4013 psi Pressure before Seating , 4166 psi Pressure after Seating. WG-36-29.7% (485.4), BC-200-5% (7.9), FR-76-4.1% (1),BA-20-4.1% (1.3), MC S-2510T-4.3% (2.8) Vicon NF-4.3% (9.2), Losurf 300D-4.9% (6.4). FE-2A-4.6% (1.2), BE-9-3.7% (1.5)
22:45	00:00	First kill plug is set at 7,930'

Report Start Date	Report End Date	24hr Activity Summary
12/7/2014	12/8/2014	Finished up the fracs. RD frac and W/L equipment and ND frac stack and NU BOP stack. Pressure test stack and flowback iron to NFX testing procedures.

Start Time	End Time	Comment
00:00	01:30	Set Second Kill plug at 7,890'
01:30	06:00	RD W/L and Frac Equipment and MOL.
06:00	11:00	Clean up location & move off tanks that are not needed. Level out location.
11:00	15:00	ND frac tree & NU BOPS & night cap on top.
15:00	17:00	Testing BOPS & accumulator as per Newfield procedures 250 low 10K high.
17:00	00:00	Wait on daylights.

Report Start Date	Report End Date	24hr Activity Summary
12/8/2014	12/9/2014	RU Snubbing unit and WOR and all the equipment on location to do the drillout.

Start Time	End Time	Comment
00:00	07:00	Wait on daylights.
07:00	10:00	MIRU WOR
10:00	14:00	MIRU Snub unit
14:00	18:00	Pressure test snub unit as per Newfield's pressure testing Procedures. Test annular to 5K. Spot in Weatherford pump & lines.
18:00	00:00	Finish RU Snubbing unit and WOR equipment.

Report Start Date	Report End Date	24hr Activity Summary
12/9/2014	12/10/2014	RIH with PH-6 Workstring and drill out the two kill plugs.

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
00:00	04:00	Finish RU Snubbing unit and WOR equipment.
04:00	06:00	Snubbing unit has blown two hydraulic fitting.
06:00	17:00	PU BHA. BHA is as follows from bottom to top: Concave Mill (4.625" OD x 1.79'), 2 7/8" ECTD Motor (2.875" OD x 12.00'), Circ Sub (2.875" OD x .750" ID x 0.69'), Dual Flapper (2.875" OD x 1.00" ID x 1.28'), Pup Jt. (2-3/8" x 9.82'), X-Over Sub (2.906" OD x 1.560" ID x 1.13') RN-Nipple (2.906" OD x 1.560" ID x 0.75'). For a total length of 27.64'. PU 256 jts 2-3/8" 5.96# P110 PH6 tbg. Fill tbg every 25 jts. Tag kill plug #2 at 7904' by tbg tally. 14' deeper than WL. Fill WS.
17:00	20:00	RU power swivel. Power swivel is RU on jt 256 2-3/8" 5.96# P110 PH6 tbg. Tag kill plug #2 at 7904' by tbg tally. 14' deeper than WL. We will break circulation and start to drill up the first kill plug.
20:00	00:00	21:06-Tagged First kill plug at 7904' on jt #256, Up weight 53k, down weight 50k, neutral 52. 1750 free torque, 2100 drill torque. WOB: 5-6pts, RPM @ 60-75. 2 bbl in @ 1750psi, 1.5bbl out @ 0psi on full open " choke. 29 minutes to drill plug. Pumped 70bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. 22:06-Tagged Second kill plug at 7,944' on jt #258, Up weight 53k, down weight 50k, neutral 52. 1200 free torque, 2350 drill torque. WOB: 5-6pts, RPM @ 60-75. 2 bbl in @ 1200psi, 2.1bbl out @ 2500psi on 18/64 " choke. 54 minutes to drill plug. Pumped 110bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. 23:00- Pumping a bottoms up here 135bbls.

Report Start Date	Report End Date	24hr Activity Summary
12/10/2014	12/11/2014	Drilled out Frac Plugs 41,40,39,38,37,36,35,34,33,32 & 31

Start Time	End Time	Comment
00:00	02:30	Had to PU 26 jts to get to the first flow through frac plug.
02:30	03:30	02:43-Tagged Frac plug #41 at 8,788' on jt #285 8' out, Up weight 43k, down weight 38k, neutral 41. 3400 free torque, 4100 drill torque. WOB: 5-6pts, RPM @ 60-75. 2 bbl in @ 3400psi, 2.3bbl out @ 2350psi on 22/64 " choke. 21 minutes to drill plug. Pumped 57bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
03:30	06:00	04:28-Tagged Frac plug #40 at 9,032' on jt #293 9' out, Up weight 43k, down weight 38k, neutral 41. 3300 free torque, 3900 drill torque. WOB: 5-6pts, RPM @ 60-75. 2 bbl in @ 3300psi, 2.4bbl out @ 2400psi on 25/64 " choke. 20 minutes to drill plug. Pumped 55bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
06:00	08:00	06:00-Tagged Frac plug #40 at 9,249' on jt #300 with 7' out, Up weight 46k, down weight 40k, neutral 43k. 3500 free torque, 4200 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500psi, 2. bbl out @ 2400 psi on 22/64 " choke. Well head pressure 2300 psi. 37 minutes to drill plug. Pumped 135 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. Circulated 20 minutes while thawing out torq gauge to driller's stand.
08:00	10:00	08:10-Tagged Frac plug #38 at 9,500' on jt #308 with 2' out, Up weight 46k, down weight 40k, neutral 43k. 3300 free torque, 4200 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3300 psi, 2. bbl out @ 2400 psi on 20/64 " choke. Well head pressure 2500 psi. 58 minutes to drill plug. Pumped 112 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
10:00	11:00	09:57-Tagged Frac plug #37 at 9,749' on jt #317 with 29' out, Up weight 46k, down weight 40k, neutral 43k. 3300 free torque, 3600 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3300 psi, 2. bbl out @ 2400 psi on 20/64 " choke. Well head pressure 2500 psi. 37 minutes to drill plug. Pumped 90 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
11:00	12:00	Circulate 165 bbl bottoms up.
12:00	13:00	12:32-Tagged Frac plug #36 at 9,923' on jt #322 with 10' out, Up weight 45k, down weight 39k, neutral 42k. 3800 free torque, 4500 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3800 psi, 2. bbl out @ 2500 psi on 18/64 " choke. Well head pressure 2500 psi. 35 minutes to drill plug. Pumped 76 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
13:00	14:00	13:30-Tagged Frac plug #35 at 10,141' on jt #329 with 7' out, Up weight 45k, down weight 39k, neutral 42k. 3400 free torque, 3600 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3400 psi, 2. bbl out @ 2500 psi on 20/64 " choke. Well head pressure 2500 psi. 46 minutes to drill plug. Pumped 105 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
14:00	17:00	Wash 7 jts sand to plug circulating 20 bbl each jt. 16:34-Tagged Frac plug #34 at 10,352' on jt #336 with 11' out, Up weight 45k, down weight 40k, neutral 42k. 3500 free torque, 3600 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500 psi, 2.5 bbl out @ 2400 psi on 27/64 " choke. Well head pressure 2500 psi. 25 minutes to drill plug. Pumped 62 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
17:00	19:00	Circulate 195 bbl bottoms up.
19:00	20:30	19:41-Tagged Frac plug #33 at 10,559' on jt #343 20' out, Up weight 45k, down weight 40k, neutral 42. 3800 free torque, 4100 drill torque. WOB: 5-6pts, RPM @ 60-75. 2 bbl in @ 3800psi, 2.4bbl out @ 2350psi on 21/64 "choke 31 minutes to drill plug. Pumped 69bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
20:30	22:30	21:44-Tagged Frac plug #32 at 10,765' on jt #350 29' out, We washed 70' of sand to get to the plug. Up weight 45k, down weight 40k, neutral 42k. 3800 free torque, 4100 drill torque. WOB: 5-6pts, RPM @ 60-75. 2 bbl in @ 3800psi, 2.4bbl out @ 2400psi on 21/64 "choke 31 minutes to drill plug. Pumped 82bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
22:30	23:00	Circulate 70 bbl while Nabors has to fix the drill line so we are goking to pump a bottoms up while the y fix the drill line.
23:00	00:00	Washed two joints of sand.

Report Start Date	Report End Date	24hr Activity Summary
12/11/2014	12/12/2014	Drilled up Frac plugs 30,29,28,27,26,25,24,23,22,21 & 20

Start Time	End Time	Comment
00:00	01:30	00:53-Tagged Frac plug #31 at 10,987' on jt #357 20' out, We washed 222' of sand to get to the plug. Up weight 45k, down weight 40k, neutral 42k. 3600 free torque, 4000 drill torque. WOB: 5-6pts, RPM @ 60-75. 2 bbl in @ 3600psi, 2.7bbl out @ 2400psi on 23/64 "choke 16 minutes to drill plug. Pumped 36bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. We are going to pump a bottoms up here.
01:30	03:00	Pump a bootoms up at 210bbls.

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
03:00	04:30	03:50-Tagged Frac plug #30 at 11,203' on jt #364 15' out, Up weight 45k, down weight 40k, neutral 42k. 3700 free torque, 4100 drill torque. WOB: 5-6pts, RPM @ 60-75. 2 bbl in @ 3700psi, 2.6bbl out @ 2450psi on 23/64 "choke 33 minutes to drill plug. Pumped 74bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
04:30	06:30	Sand-circulate every jt down to plug. 05:56-Tagged Frac plug #29 at 11,449' on jt #372 with 11' out, Up weight 45k, down weight 39k, neutral 42k. 3600 free torque, 4200 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3600 psi, 2.4 bbl out @ 2400 psi on 19/64 " choke. Well head pressure 2500 psi. 18 minutes to drill plug. Pumped 40 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
06:30	07:45	0705-Tagged Frac plug #28 at 11,635' on jt #378 with 18' out, Up weight 45k, down weight 39k, neutral 42k. 3600 free torque, 4200 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3700 psi, 2.5 bbl out @ 2400 psi on 19/64 " choke. Well head pressure 2500 psi. 35 minutes to drill plug. Pumped 75 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
07:45	09:15	08:28-Tagged Frac plug #27 at 11,841' on jt #385 with 27' out, Up weight 45k, down weight 39k, neutral 42k. 3500 free torque, 4200 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500 psi, 2.4 bbl out @ 2400 psi on 19/64 " choke. Well head pressure 2500 psi. 36 minutes to drill plug. Pumped 90 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep
09:15	10:30	09:53-Tagged Frac plug #26 at 12,015' on jt #390 with 4' out, Up weight 45k, down weight 39k, neutral 42k. 3500 free torque, 4300 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500 psi, 2.4 bbl out @ 2400 psi on 20/64 " choke. Well head pressure 2500 psi. 27 minutes to drill plug. Pumped 73 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
10:30	12:30	Circulate 240 bbl bottoms up.
12:30	14:15	14:15-Tagged Frac plug #25 at 12,337' on jt #401 with 20' out, Up weight 47k, down weight 40k, neutral 43k. 3600 free torque, 4200 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3600 psi, 2.3 bbl out @ 2300 psi on 20/64 " choke. Well head pressure 2400 psi. 13 minutes to drill plug. Pumped 52 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
14:15	15:30	15:30-Tagged Frac plug #24 at 12,477' on jt #405 with 3' out, Up weight 47k, down weight 40k, neutral 43k. 3700 free torque, 4100 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3700 psi, 2.3 bbl out @ 2300 psi on 22/64 " choke. Well head pressure 2400 psi. 19 minutes to drill plug. Pumped 56 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
15:30	17:00	17:05-Tagged Frac plug #23 at 12,716' on jt #413 with 10' out, Up weight 47k, down weight 40k, neutral 43k. 3500 free torque, 4200 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500 psi, 2.4 bbl out @ 2400 psi on 21/64 " choke. Well head pressure 2500 psi. 15 minutes to drill plug. Pumped 38 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
17:00	19:00	18:25-Tagged Frac plug #22 at 12,944' on jt #421 with 28' out, Up weight 46k, down weight 38k, neutral 41k. 3600 free torque, 4200 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3600 psi, 2.3bbl out @ 2350 psi on 19/64 " choke 23 minutes to drill plug. Pumped 55 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
19:00	20:30	19:27-Tagged Frac plug #21 at 13,169' on jt #428 with 19' out, Up weight 46k, down weight 38k, neutral 41k. 3400 free torque, 4200 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3400 psi, 2.8bbl out @ 2300 psi on 17/64 " choke 32 minutes to drill plug. Pumped 69 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. We are going to pump a bottoms up here of 260bbls.
20:30	22:30	Pumped a bottoms up of 260bbls
22:30	23:30	22:40-Tagged Frac plug #20 at 13,403' on jt #435 with 3' out, Up weight 46k, down weight 38k, neutral 41k. 3700 free torque, 4000 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3700 psi, 2.3bbl out @ 2400 psi on 17/64 " choke 26 minutes to drill plug. Pumped 67 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
23:30	00:00	PU tbg to get down to Frac plug #19.

Report Start Date	Report End Date	24hr Activity Summary
12/12/2014	12/13/2014	Drilled out frac plugs 19,18,17,16,15,14,13,12,11,10,9,8,7 & 6

Start Time	End Time	Comment
00:00	00:30	22:40-Tagged Frac plug #20 at 13,403' on jt #435 with 3' out, Up weight 46k, down weight 38k, neutral 41k. 3700 free torque, 4000 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3700 psi, 2.3bbl out @ 2400 psi on 17/64 " choke 26 minutes to drill plug. Pumped 67 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
00:30	04:00	01:05-Tagged Frac plug #18 at 13,880' on jt #451 with 15' out, Up weight 46k, down weight 38k, neutral 41k. 3400 free torque, 4000 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3400 psi, 2.3bbl out @ 2200 psi on 19/64"choke 30 minutes to drill plug. Pumped 75 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. 02:13-Tagged Frac plug #17 at 14,094' on jt #458 with 16' out, Up weight 46k, down weight 38k, neutral 41k. 3400 free torque, 4000 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3400 psi, 2.1bbl out @ 2325 psi on 17/64"choke 33 minutes to drill plug. Pumped 62 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
04:00	05:30	04:10-Tagged Frac plug #16 at 14,334' on jt #466 with 22' out, Up weight 46k, down weight 38k, neutral 41k. 3400 free torque, 4000 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3400 psi, 2.3bbl out @ 2400 psi on 17/64"choke 28 minutes to drill plug. Pumped 64 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. We are going to pump a bottoms up here of 280bbls.
05:30	07:00	Circulate 280 bbl bottoms up.
07:00	08:00	07:38-Tagged Frac plug #15 at 4,555' on jt #473 with 16' out, Up weight 50k, down weight 38k, neutral 43k. 3500 free torque, 4200 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500 psi, 2.1 bbl out @ 2400 psi on 22/64 " choke. Well head pressure 2500 psi. 36 minutes to drill plug. Pumped 83 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep
08:00	10:00	09:37-Tagged Frac plug #14 at 14,800' on jt #481 with 17' out, Up weight 50k, down weight 38k, neutral 43k. 3500 free torque, 4100 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500 psi, 2.3 bbl out @ 2300 psi on 22/64 " choke. Well head pressure 2500 psi. 14 minutes to drill plug. Pumped 42 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
10:00	11:15	Pump 5 gal POP. 10:43-Tagged Frac plug #13 at 15,016' on jt #488 with 16' out, Up weight 50k, down weight 38k, neutral 43k. 3500 free torque, 4200 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500 psi, 2.5 bbl out @ 2400 psi on 23/64 " choke. Well head pressure 2500 psi. 27 minutes to drill plug. Pumped 61 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep
11:15	12:15	12:43-Tagged Frac plug #12 at 15,244' on jt #495 with 4' out, Up weight 50k, down weight 38k, neutral 43k. 4000 free torque, 4500 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 4000 psi, 2.4 bbl out @ 2200 psi on 23/64 " choke. Well head pressure 2400 psi. 19 minutes to drill plug. Pumped 47 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
12:15	13:15	13:40-Tagged Frac plug #11 at 15,437' on jt #502 with 26' out, Up weight 50k, down weight 38k, neutral 43k. 3500 free torque, 4100 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500 psi, 2.5 bbl out @ 2200 psi on 23/64 " choke. Well head pressure 2400 psi. 31 minutes to drill plug. Pumped 62 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
13:15	15:15	Circulate 280 bbl bottoms up
15:15	17:30	16:58-Tagged Frac plug #10 at 15,677' on jt #509 with 7' out, Up weight 50k, down weight 38k, neutral 43k. 3500 free torque, 4200 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500 psi, 2.1 bbl out @ 2300 psi on 21/64 " choke. Well head pressure 2400 psi. 25 minutes to drill plug. Pumped 59 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
17:30	20:30	18:31-Tagged Frac plug #9 at 16,000' on jt #520 with 16' out, Up weight 50k, down weight 38k, neutral 43k. 3500 free torque, 4000 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3500 psi, 2.5 bbl out @ 2400 psi on 17/64 " choke. Well head pressure 2400 psi. 40 minutes to drill plug. Pumped 89 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. 20:12-Tagged Frac plug #8 at 16,173' on jt #526 with 27' out, Up weight 50k, down weight 38k, neutral 43k. 3500 free torque, 4000 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3500 psi, 2.3 bbl out @ 2400 psi on 16/64 " choke. Well head pressure 2400 psi. 18 minutes to drill plug. Pumped 47 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
20:30	23:00	21:03-Tagged Frac plug #7 at 16,343' on jt #5310 with 11' out, Up weight 50k, down weight 38k, neutral 43k. 3600 free torque, 4000 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3600 psi, 2.0 bbl out @ 2300 psi on 17/64 " choke. Well head pressure 2300 psi. 22 minutes to drill plug. Pumped 46 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. 22:03-Tagged Frac plug #6 at 16,553' on jt #538 with 16' out, Up weight 50k, down weight 38k, neutral 43k. 3900 free torque, 4600 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3900 psi, 2.30 bbl out @ 2300 psi on 17/64 " choke. Well head pressure 2300 psi. 34 minutes to drill plug. Pumped 76 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. We are pumping a bottoms up here 330bbls.
23:00	00:00	We are pumping a bottoms up here 330bbls.

Report Start Date	Report End Date	24hr Activity Summary
12/13/2014	12/14/2014	

Start Time	End Time	Comment
00:00	01:30	We are done pumping a bottoms up here at 16,553' on jt #538 330bbls.

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
01:30	03:30	01:54-Tagged Frac plug #5 at 16,761' on jt #545 with 23' out, Up weight 50k, down weight 38k, neutral 43k. 3800 free torque, 4300 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3800 psi, 2.5 bbl out @ 2375 psi on 17/64 " choke. Well head pressure 2375 psi. 31 minutes to drill plug. Pumped 72 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. 02:58-Tagged Frac plug #4 at 16,973' on jt #552 with 26' out, Up weight 50k, down weight 38k, neutral 43k. 3700 free torque, 4300 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3700 psi, 2.4 bbl out @ 2300 psi on 18/64 " choke. Well head pressure 2300 psi. 47 minutes to drill plug. Pumped 100 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
03:30	05:00	04:28-Tagged Frac plug #3 at 17,128' on jt #557 with 24' out, Up weight 50k, down weight 38k, neutral 43k. 3800 free torque, 4300 drill torque. WOB: 5-6 pts, RPM 90. 2 bbl in @ 3800 psi, 2.2 bbl out @ 2350 psi on 17/64 " choke. Well head pressure 2350 psi. 14 minutes to drill plug. Pumped 35 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep. Washed sand from frac plug #4 to frac plug #3 we will pump 60 extra bbls here to get the sand way up above us.
05:00	07:00	Circulate 300 bbl bottoms up.
07:00	08:00	07:36-Tagged Frac plug #2 at 17,319' on jt #563 with 17' out, Up weight 57k, down weight 38k, neutral 43k. 3500 free torque, 4100 drill torque. WOB: 4 pts, RPM 90. 2 bbl in @ 3500 psi, 2.5 bbl out @ 2400 psi on 18/64 " choke. Well head pressure 2500 psi. 35 minutes to drill plug. Pumped 87 bbls water with .5 gal of FR-76 to 1000gals. Pumped 10 bbl gel sweep.
08:00	09:00	Clean out to 17,473' on jt #576.
09:00	14:15	Pump 10 bbl sweep, 20 bbl spacer, then 10 bbl sweep. Circulate 750 bbl (2.5 times bottoms up).
14:15	18:00	SIP 2400 psi. Swivel 10 jts OH. Tie back swivel. LD 2-3/8" WS.
18:00	23:00	Con't LD 2 3/8" tbg. With 319 jts of 2 3/8" PH-6 tbg on the ground stop and get ready to circulate bottoms up. EOT @8366'
23:00	00:00	Get good jt count on tbg. RU power swivel to circulate bottoms up.

Report Start Date	Report End Date	24hr Activity Summary
12/14/2014	12/15/2014	Continue the drill out to PBTD. POOH LD tbg.

Start Time	End Time	Comment
00:00	02:00	Circulated 180 bbls bottoms up with two 12 bbl sweeps 20 bbls apart. EOT @8366'.
02:00	03:00	RD power swivel & rack out. Pickle pumps & flowback iron.
03:00	06:00	Continue to LD 2 3/8" 5.95# PH-6 tbg. There is 460 jts out 130 jts in the hole putting EOT @4028'. Shut in & secure well.
06:00	07:30	Wait for day light to snub out.
07:30	14:30	Finish laying down WS with rig assist snubbing unit. LD BHA. Secure well.
14:30	20:30	Change out pipe rams.
20:30	22:30	Test BOP stack & snub unit to Newfields testing Proceudres.

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
22:30	00:00	SDFN & wait on daylights.

Report Start Date	Report End Date	24hr Activity Summary
12/15/2014	12/16/2014	Snub WS out of hole. PUMU production string & RIH.

Start Time	End Time	Comment
00:00	07:00	SDFN & secure well. Wait on daylights.
07:00	08:30	PU 2-7/8" notched collar (3.688" OD x 3.00" ID x 0.44' L), 2-7/8" x 2.09' pup jt, 2-7/8" x 4.13' perf pup, 10K ceramic burst disc (3.688" OD x 2.441" ID x 0.78' L), 2-7/8" TUBAL gauge (3.600" OD x 2.200" ID x 3.61' L) 1 jt 2 -7/8" 6.5# EUE 8rd L-80 tbg, 2-7/8" x 2.313" ID x 1.20'L X-nipple. Equalize pressure in BOP stack and open blind/shears and HCR valve. Snub -7/8" 6.5# EUE 8rd L-80 tbg IH.
08:30	16:30	Snub in the hole W/15 jts of 2 7/8" 6.5# EUE tbg & BHA & fill tbg. Snub in the hole W/115 jts of 2 7/8" L-80 6.5# tbg filling every 25 jts.
16:30	20:00	RIH on elevators W/111 jts of 2 7/8" 6.5# EUE tbg filling every 25 jts. To get 2-7/8" notched collar (3.688" OD x 3.00" ID x 0.44' L), 2-7/8" x 2.09' pup jt, 2-7/8" x 4.13' perf pup, 10K ceramic burst disc (3.688" OD x 2.441" ID x 0.78' L), 2-7/8" TUBAL gauge (3.600" OD x 2.200" ID x 3.61' L) 1 jt 2-7/8" 6.5# EUE 8rd L-80 tbg, 2-7/8" x 2.313" ID x 1.20'L X-nipple, 140 jts 2 7/8" L-80 6.5# tbg.
20:00	22:00	Pump 30 bbls of water @120 deg to do a bowl wash & get ready to land tbg on hanger.
22:00	23:00	PU landing joint and hanger. Land well on hanger. Bleed off pressure in BOP stack. Pressure test hanger per Newfield's procedures.
23:00	00:00	LD landing joints & RD stairs and tbg equipment in basket.

Report Start Date	Report End Date	24hr Activity Summary
12/16/2014	12/17/2014	PUMU production string & RIH.

Start Time	End Time	Comment
00:00	04:00	RD snub unit & spools
04:00	05:00	ND BOP stack & HCR valve.
05:00	06:00	NU Production tree
06:00	07:30	Wait on daylight.
07:30	09:30	RDMO WOR,
09:30	10:15	POP well at 10:15 AM and turn over to production. Pumped 90 bbls water down tubing and rupture disc, (two tbg volumes), Disc ruptured at 3,000 psi,
10:15	18:00	Clean location and release equipment.
18:00	00:00	Shut down for night

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-6173

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: POWVITCH 15-13-12-3-2WB

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013519420000

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: NORTH MYTON BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0075 FNL 2332 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 24 Township: 03.0S Range: 02.0W Meridian: U

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 11/23/2015	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Well Lease Number

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

It has been determined by the Bureau of Land Management that the correct lease number for the Powvitch 15-13-12-3-2WB is 14-20-H62-6173.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
December 01, 2015

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Mandie Crozier	435 646-4825	Regulatory Tech
SIGNATURE N/A		**DATE** 11/23/2015

RECEIVED: Nov. 23, 2015

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-6173

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: POWVITCH 15-13-12-3-2WB

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013519420000

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: NORTH MYTON BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0075 FNL 2332 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 24 Township: 03.0S Range: 02.0W Meridian: U

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 10/28/2014	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Daily Drilling Reports

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

As per our conversation with Dustin Doucet, attached find the Daily Drilling Reports for the above mentioned well.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
January 22, 2016

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Mandie Crozier	435 646-4825	Regulatory Tech
SIGNATURE N/A		**DATE** 1/21/2016

RECEIVED: Jan. 21, 2016

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Job Category	Job Start Date	Job End Date

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
9/14/2014	9/15/2014	Set 60' of 20" conductor pipe.

Start Time	End Time	Comment
00:00	00:00	Pete Martin Rig #16 spudded 26" hole on 09/14/2014 and drilled to 60' GL. Set 20", 52.78# (0.250" wall), SA53B conductor pipe at 60' GL and cemented to surface with Redi Mix. Kylan Cook notified UDOGM and BLM by e-mail @ 09:30 AM on 09/12/2014 to spud conductor hole on 09/13/2014. Spud date pushed back due to availability of bucket rig.

Report Start Date	Report End Date	24hr Activity Summary
9/15/2014	9/16/2014	MIRU Pro Petro Rig #10. Pick up directional BHA. Trip in hole to 60' GL. Drill from 60' GL to 90' GL. Change packing in top drive.

Start Time	End Time	Comment
08:00	22:00	MIRU Pro Petro Rig #10.
22:00	23:00	Start picking up directional BHA. Trip in hole to 60' GL.
23:00	23:30	Spud 17 1/2" hole @ 23:00 PM on 09/15/2014. Drill from 60' GL to 90' GL while picking up directional tools.
23:30	00:00	Change packing in top drive.

Report Start Date	Report End Date	24hr Activity Summary
9/16/2014	9/17/2014	Change packing in top drive. Drill from 90' GL to 650' GL. Repair leak in hydraulic hard line. Drill from 650' GL to 1010' GL.

Start Time	End Time	Comment
00:00	02:00	Change packing in top drive.
02:00	03:00	Pick up directional tools.
03:00	04:00	Drill from 90' GL to 150' GL while picking up directional BHA.
04:00	04:30	Install rotating head rubber.
04:30	11:30	Drill from 150' GL to 580' GL while picking up directional BHA.
11:30	12:00	Change rubber size in rotating head.
12:00	13:30	Drill from 580' GL to 650' GL.
13:30	16:30	Repair leak in hydraulic hard line.
16:30	00:00	Drill from 650' GL to 1010' GL.

Report Start Date	Report End Date	24hr Activity Summary
9/17/2014	9/18/2014	Drill from 1010' GL to TD @ 1650' GL. Circulate. Trip out of hole to run surface casing.

Start Time	End Time	Comment
00:00	13:30	Drill from 1010' GL to 1520' GL.
13:30	14:00	Change swab in mud pump.
14:00	16:00	Drill from 1520' GL to 1610' GL.

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
16:00	18:00	Repair table wrench.
18:00	18:30	Drill from 1610' GL to TD @ 1650' GL. TD 17 1/2" hole @ 18:30 PM on 09/17/2014.
18:30	20:00	Circulate to trip out of hole.
20:00	00:00	Trip out of hole to run surface casing.

Report Start Date	Report End Date	24hr Activity Summary
9/18/2014	9/19/2014	Run surface casing. Circulate. Weld top cap. Cement surface casing. Wait on cement, clean pits, and rig down. Release rig.

Start Time	End Time	Comment
00:00	01:00	Rig up to run surface casing. No water flow.
01:00	07:30	Run 39 joints (1637.19') of 13 3/8", 54.5#, J-55, BT&C casing with Top-Co guide shoe and float collar. 14 centralizers spaced 10' from the shoe, on top of joints #2 & #3 then every 3rd collar to surface. Landed @ 1637.19' GL, Float Collar @ 1593.97' GL. Had to wash through intermittent tight spots from 1250' GL.
07:30	08:30	Circulate with casing on bottom.
08:30	09:30	Weld top cap from casing to conductor pipe.
09:30	10:00	Circulate casing with rig pump. Rig up Pro Petro Cementers.
10:00	10:30	Start Cement: 60 bbls into lead cement lost hydraulic hose on pump truck.
10:30	12:00	Shut down pump truck. Circulate cement out of hole with rig pump while waiting for another pump truck from Vernal.
12:00	13:30	Cement Job: Pumped 20 bbls fresh water & 40 bbls gelled water flush ahead of cement. Lead: Mixed and pumped 416 sacks (212 bbls) of Type V Cement with 16% Gel, 10 #/sk Gilsonite, 2#/sk Gr3, 3% Salt, and 1/4 #/sk Flocele. Mixed cement @ 12.0 ppg with yield of 2.86 cf/sk. Tail: Mixed and pumped 675 sacks (138 bbls) of Premium Class G Cement with 2% CaCl2, and 1/4 #/sk Flocele. Mixed cement @ 15.8 ppg with yield of 1.15 cf/sk. Displaced cement with 245 bbls fresh water. Bumped plug with 1000# @ 13:36 PM on 09/18/2014. Floats held. 40 bbls cement to surface. Shut in well after pumping stopped. Kylan Cook notified UDOGM and BLM of the surface casing & cement job via e-mail on 09/16/2014 @ 22:50 PM.
13:30	21:30	Wait on cement, clean pits, and rig down. Release rig @ 21:30 PM on 09/18/2014.

Report Start Date	Report End Date	24hr Activity Summary
9/20/2014	9/21/2014	Finish preparation of location for drilling rig.

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
00:00	00:00	09/19/2014 - Drill Mouse Hole. 09/20/2014 - Final blade location. 09/21/2014 - Weld on Wellhead. 09/22/2014 - Cement cellar floor up to the top of base plate on wellhead. SURFACE HOLE DIRECTIONAL SURVEY DEPTHS ARE GROUND LEVEL. Location is ready for drilling rig.

Report Start Date	Report End Date	24hr Activity Summary
9/21/2014	9/22/2014	Lay down top drive, tds remove pipe wrangler, prepare rig for rig move

Start Time	End Time	Comment
06:00	00:00	(Start) Cleared rig floor of tools & mats. R/D Service Loop and Kelly Hose. Removed Service Loop Cover. Hung Top Drive. Slipped Drilling Line on drum. L/D Mousehole. Disconnect Becket from Blocks. Lowered Top Drive to Rig Floor. Rig Down Standpipe & Manifold, Mud Tanks and hoses, Prep ST-80,VFD House, Pull service loops, Take Top Drive offset on racks, Top drive on Ground @ 16:30, Rig up trac cart, rig down pipe wrangler, rig down TDS trac. Two swampers, 2 bed trucks, 1 forklift, 1 truck pusher, 1 crane, 3 riggers, 1 operator. Arrived on location @ 15:30. J.D. Services shut down @19:00.

Report Start Date	Report End Date	24hr Activity Summary
9/22/2014	9/23/2014	Rig down & move out

Start Time	End Time	Comment
00:00	06:00	Operations suspended for the night. Crews working days only for rig move.
06:00	18:00	Blow down water lines & Hydro matic, R/D water system, Totco lines, Atuo driller, Electrical lines, Prep floor for laying down derrick. Remove ait tuggers & Floor plates, Hang kelly hose, Lay derrick over on stand @ 08:30, Chain blocks down, Unbridle, Unstring, Split compoundUn bolt draworks and turn buckles, Take derrick off floor & Set on pipe racks, Load out mud pumps & Mud tanks, Parts house, Light plants, Change house, Koomey house, Satirs, Water tank, Fuel tank, Hopper house, Matting Boards, Gas buster, TDS Gen, Pre mix, Dog house, Rig down & move out. On new location set mud tanks, pump mats, and mud pumps #1, #2, #3 On location 2 cranes (1 = 1/2 day)4 riggers, 2 bed trucks, 1 pole truck, 3 swampers, 6 haul trucks, 2 forklifts. Total loads for today 25
18:00	00:00	Operations suspended for the night. Crews working days only for rig move.

Report Start Date	Report End Date	24hr Activity Summary
9/23/2014	9/24/2014	Break down sub base and re-allemble on new locarion lay down and split derrick

Start Time	End Time	Comment
00:00	06:00	Shut down wait on daylight to resume rig move
06:00	18:00	Resume rig move break down sub base, split derrick, transport loads to the Powvitch locarion re-assemble sub base, move camps Set off BOP, instsall tubing head, pressure tested. All electricial, fuel and ground rods pulled. rig up mats and stack pin subs and install bop, 90% off rig off old location, Back yard 90% rigged up, 2 cranes, 4 riggers, 2 Bed trucks, 1 pole truck, 3 swampers, 7 Haul trucks, 2 Forklift, 2 Pushers, 1 safety, 5 Pilot cars.
18:00	00:00	Shut down, wait on daylight to resume rig move

Report Start Date	Report End Date	24hr Activity Summary
9/24/2014	9/25/2014	Move in and rig up clear old location and rig up on new location

Start Time	End Time	Comment
00:00	06:00	Wait until daylight to resume rig move

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
06:00	19:30	Continue clear old location, rig up on new location, set drawworks and motors, set all peak equipment, pinned derrick. set #1 # 2 floor motors chains in compound and fill with oil. get air and fuel to floor. set gas buster choke house, and flow line inspect crown set derrick board. put derrick on floor pin and raise A-Legs. set water tank, service loop and doghouse.set hopper house and barite uprights. hooked lines up from hopper to tanks. set all stairs in place.hooking up water lines and hooking up cords for doghouse, pumps and accumulators. rig up string up crew string up blocks. Raise Derrick. 2 cranes, 5 haul trucks, 1 bed truck 3 forklifts
19:30	00:00	Wait until daylight to resume rig move

Report Start Date	Report End Date	24hr Activity Summary
9/25/2014	9/26/2014	Rig up, pits, pumps and back yard. Install and rig up top drive, hang service loop and rig up rig floor. Nipple up and install rotating head and flow line then Tighten and function test Bop. Welder making necessary repairs to Flow line and Catwalk (Hot Work) Fill pits and receive Directional tools

Start Time	End Time	Comment
00:00	06:00	Wait on daylight to resume rig move and rig up
06:00	18:00	R/U Air Tuggers. Install Floor Plates. R/D Bridle Lines and hang back in derrick. Install lines from Gas Buster to flow line and shakers. Set Catwalk and Beaver Slide. Installed Torque Tube in derrick. Picked up top drive. Plugged in cords on Top Drive and VFD House. Hung Service Loop. Installed sheath on service loop. M/U Kelly Hose to Top Drive.
18:00	00:00	(Start) Nipple up BOPE- Rig up Choke line, Kill line, Nipple up Bop, make up Flow line and rotating head, Torque bolts on Bop and choke line, install turn Buckles and preliminary center up Bop stack under floor. Hook up and test accumulator hydraulic hoses and Pressure up Accumulator. Function test BOP. Rig up work continued in back yard, hook up pits to tank farm, rig up premix tank, hook up flow lines from centrifuges to pits, Clean out Pump rooms and clean off pits prepare rig for spud and perform pre spud inspection. Clean up Mud storage area and pipe racking area and store all auxiliary equipment. Welder (Hot work Permit) Completed repairs to catwalk and flow line. Hauled in 260 bbl's 20%Kcl and 440 bbl's fresh water to fill pits, fill Premix tank with 200 bbl's of fresh water. fill storage tanks in front yard. with 450 bbl's fresh water, used 2 Iowa Tank lines trucks and 2 Gonzo Trucking trucks. Hauled in, unload and began prepping Weatherford Directional tools for 12 1/4" section.

Report Start Date	Report End Date	24hr Activity Summary
9/26/2014	9/27/2014	Service and lubricate all valves on BOP and choke. Perform full accumulator function test then Pressure test BOPE to 5M Specifications. Replaced element in Annular (failed to test). Nipple up Rotating head and Flow line, Begin handle BHA.

Start Time	End Time	Comment
00:00	01:00	Service and Lubricate all Valves on BOPE with Eager beaver Testers. Pick up Joint of drill pipe and get Test Plug and test subs on Rig floor

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
01:00	06:00	(Start) Test BOP - Hold pre-job safety Meeting with Eager Beaver Testers and complete JSA Begin test with Accumulator function test then run test plug in on Drill pipe and set in well head, Fill BOP with water and Begin testing Test 1: (02:00) Test Annular preventer - Attempted Several times to test but Could not achieve low pressure test even after increasing accumulator hydraulic pressure to over 1500 psi, Drained Stack below Hydril and shut in again then Clearly noticed Hydril element leaking around pipe. Began trying to locate Replacement element and continue testing BOPE Test 2: (03:30) Upper Pipe rams, Hydraulic IBOP, Inside Kill line valve, Manuel Choke line valve to 250 Psi Low for 5 minutes then 5000 Psi High for 10 minutes *(At 04:00 Night Rig manager TJ Ramone located replacement parts for Hydril at Pioneer yard in Vernal Utah and got them in route to rig.) Test 3: (04:10) Lower Pipe Rams, Manual IBOP, Outside KIll line valve & HCR Choke line valve to 250 psi Low for 5 minutes then 5000 psi High for 10 Minutes. Test 4:(04:40) Lower pipe rams, Full open safety Valve(TIW), Dart Valve (IBOP), Coke manifold riser and inside manifold valves, Kill line check valve. Test 5; (05:25) Blind Rams, outside manifold valves to 250 Psi low for 5 minutes and 5000 psi High for 10 minutes Test 6: (06:00) Super Choke to 250 psi low for 5 minutes and 1500 psi high for 10 minutes
06:00	08:00	PJSM with Eager Beaver BOP Testers. Pulled Test Plug. Test 7: (06:35) Outside manifold Valves on choke to 250 psi low and 5000 psi high for 10 minutes. Test 8: (07:00) Test casing to 250 psi low for 5 minutes and 1500 Psi high for 30 minutes.
08:00	15:00	Closed Blind Rams. R/D Flowline and Rotating Head. M/U Potatomasher to Annular cap. Unbolt and removed cap on annular. Changed out Rubber Element. Installed cap on Annular.
15:00	16:30	Set Test Plug in Well Head. Test Annular to 250 psi Low, 3500 psi High. R/D Test Equipment. Pulled Test Plug.
16:30	17:00	Installed Wear Bushing.
17:00	22:30	Install and N/U Rotating Head, R/U Flow Line. Install turn Buckles and center up BOP Rig up plumbing from Choke house to Pits and Gas Buster
22:30	23:00	Lubricate Draw works, Blocks and top Drive. Service and inspect St-80 and catwalk (JSA, Personel lift permit and LOTO)
23:00	00:00	(Start) Line out and prepare to Pick up Directional tools Tally HWDP.

Report Start Date	Report End Date	24hr Activity Summary
9/27/2014	9/28/2014	Pick up BHA and trip in hole tag cement and drill out shoe and float then 10 of new formation to 1687 then perform FIT to 13 ppg Emw, Drill 1040' of 12 1/4" hole from 1686' to 2716' Replace Main drive clutch on #2 Mud pump.

Start Time	End Time	Comment
00:00	05:30	Hold safety meeting with weatherford, Make up Ultera Bit (U616M with .557 TFA) to Weatherford Mud motor (QLE 7840 with 1.83 deg bent housing) then make up and Scribe (EM) MWD equipment. Pick up 21 - 5" HWDP then Pick up Smith super jar, and 6 - 5" HWDP.
05:30	07:00	Pick up 5" drill pipe and trip in hole from 970' to 1,574' tagged cement.
07:00	07:30	Installed Rotating Head Element.

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
07:30	09:30	(Start) Drill shoe track/FIT... Drill cement f/ 1574' to 1676' (Float Collar @ 1620' Float Shoe @ 1663')
09:30	10:00	Drill 10' of new formation for FIT. Drill 12.25'' Vertical Hole Section F/ 1676' To 1686' (2 Pumps on the hole at 86 SPM Each, 403 GPM) Present Mwt 8.6 ppg
10:00	11:00	Circulate Bottoms up and for mud wt checks. Spot Hi Vis Pill
11:00	11:30	HPJSM & Rig up Eager Beaver Testers. Conduct FIT to 13 ppg EMW, 13 ppg-8.6 ppg=4.4 x .052 x 1686' = 386 psi
11:30	12:30	Circulated High Vis Pill out of hole. Fluid blinding off shakers. Changed Shaker Screens to 70's.
12:30	17:30	(Start) Drill 12.25'' Vertical Hole Section F/ 1686' To 2197' (3 Pumps on the hole at 97 SPM Each, 656 GPM) Present Mwt 8.6 ppg
17:30	18:00	Serviced Rig & Equipment.
18:00	21:00	Drill 217' of 12.25'' Vertical Hole Section From 2197' to 2414' at 72 fph avg. (2 Pumps on the hole at 120 SPM Each, 545 GPM) Present Mw 8.6 ppg Pumped 15 bbl High vis Sweep at 2400' plugged screens on Pump suctions Replacing Drive clutch on #2 Mud pump
21:00	21:30	Clean suction screens on Both mud pumps.
21:30	00:00	Drill 302' of 12.25'' Vertical Hole Section From 2414' to 2716' at 120 fph avg. (2 Pumps on the hole at 120 SPM Each, 545 GPM) Present Mw 8.6 ppg Replacing Drive clutch on #2 Mud pump

Report Start Date	Report End Date	24hr Activity Summary
9/28/2014	9/29/2014	Drilled 2031' of 12 1/4" Hole from 2716' to 4747'

Start Time	End Time	Comment
00:00	05:30	Drill 521' of 12.25'' Vertical Hole Section From 2716' to 3237' at 94.7 fph avg. (2 Pumps on the hole at 120 SPM Each, 545 GPM Until 3050' when repairs on pump #2 were completed and we began running 3 Pumps at 104 stk each= 700 GPM at 3050 PSi on bottom) Present Mw 8.6 ppg Pumped 15 bbl High vis sweep at 2963' Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion)
05:30	06:00	Lubricate rig - Service Draw works, Blocks, Top Drive, St-80, Catwalk, and compound. JSA and Personel lift Permit.
06:00	12:00	Drill 448' of 12.25'' Vertical Hole Section From 3237' to 3685' at 74.6 fph avg. 3 Pumps at 104 stk each= 700 GPM at 3050 PSi on bottom) Present Mw 9.2 ppg Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion)
12:00	15:30	Drill 401' of 12.25'' Vertical Hole Section From 3685' to 4086' at 114.6 fph avg. (2 Pumps on the hole at 120 SPM Each, 545 GPM From 3777' - 4086' while making repairs on pump #1 and Shaker. Ran 3 Pumps at 104 stk each= 700 GPM at From 3685' - 3777') Present Mw 9.2 ppg Pumped 15 bbl High vis sweep at 3900' BGG 3000 - 4700 Units. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion)
15:30	16:00	Serviced Rig and Equipment.

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
16:00	00:00	Drill 661' of 12.25" Vertical Hole Section From 4086' to 4747' at 82.6 fph avg. (2 Pumps on the hole at 120 SPM Each, 545 GPM From 4086' - 4143' while making repairs on pump #1 and Shaker. Ran 3 Pumps at 104 stk each= 700 GPM at From 4143' - 4747') Present Mw 9.3 ppg Pumped 15 bbl High vis sweep at 4685' BGG 400 - 1600 Units. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion)

Report Start Date	Report End Date	24hr Activity Summary
9/29/2014	9/30/2014	Trouble shoot EM tool, Drill 31' from 4747 to 4778' Circulate high vis sweep around mix pill, Check flow and POOH, Replace EM tools and trip in hole, Drill 172' from 4778' to 4950'

Start Time	End Time	Comment
00:00	02:00	(STOP) Trouble shoot Weatherford MWD tool, Weak signal at 4747' Pull up to 4650 Signal is strong and tool responding
02:00	02:30	Still trouble shooting MWD, Drill ahead with no data 31' from 4747' to 4778' to attempt to regain signal.
02:30	03:00	Continue to Trouble Shoot MWD, Back up EM tools are here on location but WSS ordered Weatherford to Send Pulse MWD subs and Kit Box at 02;30 Just in case EM Tool shows no signs of damage.
03:00	05:00	Circulate High vis sweeps around and Clean up hole while rotating and reciprocating Drill string from 4650' to 4778'.
05:00	05:30	Rig service - Lubricate Blocks and top Drive, Service and inspect Draw works, st-80, Catwalk.
05:30	06:00	(Start) Pull out of hole - Flow Check and Pump Slug to Dry Pipe, Pull out of hole from 4778' to 4100' while monitoring fill up on trip tank.
06:00	07:30	Pull out of hole from 4100' to 900' while monitoring fill up on trip tank.
07:30	08:00	Removed Rotating Head Rubber. Flow Check - No Flow.
08:00	08:30	Serviced Rig and Equipment.
08:30	09:30	Pull out of hole from 900' to BHA while monitoring fill up on trip tank. L/D Jars and NMDC. Removed EM Tool. L/D Emitter Sub. Drained Motor. Checked Motor and Bit.
09:30	10:30	M/U Bit, Motor, NM Pony Collar, XO, MWD Carrier Sub, and Emitter Sub. Installed EM MWD/ GR Probe Tool. M/U NMDC. Orient BHA. Test EM Tool.
10:30	14:00	Trip in hole with BHA to 4,753'. Filled pipe at 1,730' and 4,753'. Wash down to 4,778'.
14:00	14:30	(Start) Drill 8' of 12.25" Vertical Hole Section From 4778' to 4786'. Ran 3 Pumps at 104 stk each= 700 GPM at From 4778' - 4786') Present Mw 9.3 ppg Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slide From 4,780' to 4,786 (6' in .5 hr)
14:30	15:30	(STOP) Trouble shoot Weatherford MWD/GR tool, Reboot Computer to clear sporadic toolface readings. Signal is strong and tool responding.

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
15:30	17:30	Drill 62' of 12.25" Vertical Hole Section Sliding From 4786' to 4848'. Ran 2 Pumps at 120 stk each= 549 GPM Present Mw 9.3 ppg Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 4786 - 4803 (17' in 1 hr) Rotate: 45' in 1 Hr
17:30	18:30	(STOP) Trouble shoot Weatherford MWD/GR tool, Reboot Computer to clear sporadic toolface readings. Boost power to 6 Amp Signal is strong and tool responding. Reduce power to 3 Amp Nov called out to service wildcat
18:30	00:00	Drill 112' of 12.25" Vertical Hole Section rotating and Sliding From 4848' to 4960'. Ran 2 Pumps at 120 stk each= 549 GPM Present Mw 9.3 ppg / Pump #1 is down with welder needed to replace wear plate (welder coming at 06:00) Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 4848 - 4879 (31' in 2.5 hr) / 4942' - 4960' (18' in 2.5 hr) Rotate: 63' in .5 Hr MW at 9.2 ppg ITL water truck on location Sucking up Rain water and transferring to Fresh water cuttings pit. 650 bbl's transferred.

Report Start Date	Report End Date	24hr Activity Summary
9/30/2014	10/1/2014	Drill 597' From 4950' to 5557'

Start Time	End Time	Comment
00:00	02:00	Drill 77' of 12.25" Vertical Hole Section rotating and Sliding From 4960' to 5037. Ran 2 Pumps at 120 stk each= 549 GPM Present Mw 9.3 ppg / Pump #1 is down with welder needed to replace wear plate (welder coming at 06:00) Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 4960 - 4974 (14' in 1 hr) Rotate: 63' in 1 Hr MW at 9.2 ppg ITL water truck on location Sucking up Rain water and transferring to Fresh water cuttings pit. over 800 bbl's transferred.
02:00	02:30	Serviced Rig and Equipment.
02:30	06:00	Drill 94' of 12.25" Vertical Hole Section rotating and Sliding From 5037 to 5131. Ran 2 Pumps at 120 stk each= 549 GPM Present Mw 9.3 ppg / Pump #1 is down with welder needed to replace wear plate (welder coming at 06:00) Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 5037' - 5065 (28' in 2.5 hr) Rotate: 66' in 1 Hr MW at 9.2 ppg ITL water truck on location Sucking up Rain water and transferring to Fresh water cuttings pit. over 1000 bbl's transferred total .

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
06:00	11:30	Drill 189' of 12.25" Vertical Hole Section rotating and Sliding From 5131' to 5320. Ran 2 Pumps at 120 stk each= 549 GPM Present Mw 9.2 ppg / Pump #1 is down with welder needed to replace wear plate (welder coming at 06:00) Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 5131' - 5158' (27' in 2.5 hr) Rotate: 162' in 3.0 Hr MW at 9.2 ppg ITL water truck on location Sucking up Rain water and transferring to Fresh water cuttings pit. over 1100 bbl's transferred total .
11:30	12:00	Precautionary wash and reamed stand through top of Mahogany Bench (~5,247 MD) prior to making connection.
12:00	17:00	Drill 94' of 12.25" Vertical Hole Section rotating and Sliding From 5320' to 5414'. Ran 2 Pumps at 120 stk each= 549 GPM Present Mw 9.2 ppg / Pump #1 is down with welder working to replace wear plate Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 5320' - 5343' (23' in 3.5 hr) Rotate: 71' in 1.5 Hr MW at 9.2 ppg
17:00	17:30	Serviced Rig and Equipment. Greased Rig, Blocks, Crown, and Swivel Packing.
17:30	00:00	Drill 143' of 12.25" Vertical Hole Section rotating and Sliding From 5414' to 5557'. Ran 2 Pumps at 120 stk each= 549 GPM Present Mw 9.2 ppg / Pump #1 is repaired and fully operational (cont. run only 2 pumps while drilling Mahogany bench). Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 5414 - 5421' (7' in .5 hr) 5421-5440 (19' in 1.25 hr) 5509 - 5537 (28' in 2.25 hr) Total slide:54' in 4 hr Rotate: 89' in 2.5 Hr MW at 9.2 ppg

Report Start Date	Report End Date	24hr Activity Summary
10/1/2014	10/2/2014	Drill 706' From 5557' to 6263'

Start Time	End Time	Comment
00:00	04:30	Drill 141' of 12.25" Vertical Hole Section rotating and Sliding From 5557' to 5698'. Ran 2 Pumps at 120 stk each= 549 GPM Present Mw 9.2 ppg / Pump #1 is repaired and fully operational (cont. run only 2 pumps while drilling Mahogany bench). Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 5603 - 5635' (32' in 2 hr) Total slide:32' in 2 hr Rotate: 109' in 2.5 Hr MW at 9.2 ppg
04:30	05:00	Serviced Rig and Equipment. Greased Rig, Blocks, Crown, and Swivel Packing.

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
05:00	06:00	Drill 48' of 12.25" Vertical Hole Section rotating and Sliding From 5698' to 5746'. Ran 3 Pumps at 105 stk each= 700 GPM Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: Total slide 0' in 0 hr Rotate 48' in 1.0 Hr MW at 9.4 ppg
06:00	12:00	Drill 235' of 12.25" Vertical Hole Section rotating and Sliding From 5746' to 5981'. Ran 3 Pumps at 115 stk each= 750 GPM Present Mw 9.4 ppg. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 5792 - 5822' (30' in 2 hr) Total slide:30' in 2 hr Rotate: 205' in 4.0 Hr MW at 9.4 ppg
12:00	14:00	Drill 95' of 12.25" Vertical Hole Section Rotating From 5981' to 6076'. Ran 3 Pumps at 100 stk each= 700 GPM Present Mw 9.4 ppg. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 0 - 0' (0' in 0 hr) Total slide:0' in 0 hr Rotate: 95' in 2.0 Hr MW at 9.4 ppg
14:00	14:30	Lubricate Rig, Blocks, Top Drive, Crown and Swivel Packing.
14:30	15:00	Drill 4' of 12.25" Vertical Hole Section Sliding From 6076' to 6080'. Ran 3 Pumps at 100 stk each= 700 GPM Having pump pressure problems when sliding.Present Mw 9.4 ppg. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 6076' - 6080' (4' in 0.5 hr) Total slide:4' in 0.5 hr Rotate: 0' in 0.0 Hr MW at 9.4 ppg
15:00	15:30	Troubleshoot pumps changed out 2" Bleed-Off Valve on # 2 Mud Pump.
15:30	00:00	Drill 183' of 12.25" Vertical Hole Section Sliding From 6080' to 6263'. Ran 3 Pumps at 100 stk each= 700 GPM. Present Mw 9.4 ppg. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 6080' - 6108' (28' in 2.25 hr) 6169 - 6182 (13' in 1.5 hr) 6201 - 6232 (31' in 2 hr) Total slide:72' in 5.75 hr Rotate: 111' in 2.75 Hr MW at 9.4 ppg 260 bbl'sRig water Delivered By ITL

Report Start Date	Report End Date	24hr Activity Summary
10/2/2014	10/3/2014	Drill 188' From 6263 to 6451'. Motor failure. Circulate High Vis Sweep, flow check and slug pipe. POH Break off Bit and L/D Motor.

NEWFIELD

Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
00:00	04:00	Drill 94' of 12.25" Vertical Hole Section Sliding From 6263' to 6357'. Ran 3 Pumps at 100 stk each= 700 GPM. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 6273' - 6296' (23' in 2 hr) Total slide:23' in 2 hr Rotate: 71' in 2 Hr MW at 9.55 ppg
04:00	04:30	Lubricate Rig, Blocks, Top Drive, Crown and Swivel Packing.
04:30	06:00	Drill 94' of 12.25" Vertical Hole Section Sliding From 6357' to 6378'. Ran 3 Pumps at 100 stk each= 700 GPM. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 6367' - 6378' (11' in 1.50 hr) Total slide:11' in 1.5 hr Rotate: 0' in 0 Hr MW at 9.55 ppg
06:00	10:30	Drill 73' of 12.25" Vertical Hole Section Sliding From 6378' to 6451'. Ran 3 Pumps at 100 stk each= 700 GPM. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 6377' - 6387' (10' in 1.25 hr) 6397' - 6406' (9' in 1.0 hr) Total slide:19' in 2.25 hr Rotate: 54' in 2.25 Hr MW at 9.55 ppg
10:30	11:00	Motor stalling out and pressuring up. Troubleshoot motor and determined that motor failure had occured.
11:00	13:30	Circulate High vis sweeps around and clean up hole while rotating and reciprocating drill string from 6380' to 6451'.
13:30	17:00	(Start) Pull out of hole - Flow Check and Pump Slug to Dry Pipe, Pull out of hole from 6451' to 2110' while monitoring fill up on trip tank.
17:00	17:30	Serviced and Lubricated Blocks, Top Drive and Crown.
17:30	20:00	Continue pooh to 103'
20:00	21:30	PJSM with DD and MWD lay down BHA X/O Sub, NMDC, Emitter Sub, TOL Carrier, double pin sub and NMDC, Broke bit and layed down motor
21:30	00:00	PJSM with DD, MWD, P/U Mud Motor, Muleshoe, Make up Bit, P/U NMDC, Tool Carrier, NMDC, X/OSub

Report Start Date	Report End Date	24hr Activity Summary
10/3/2014	10/4/2014	Trip in Hole, Wash and Ream to 6451' Rotate and Slide Drill F/ 6451 to 6996'

Start Time	End Time	Comment
00:00	01:00	Start TIH W/ HWDP P/U Jars, Install Rotating Head Rubber. Cont. in Hole to 1728'
01:00	02:30	Test MWD Tools, Getting Magnetic Interference From The casing Run a couple more stands in to 1940' Test MWD tools again, Good Test
02:30	03:30	Cont. TIH to 4729'
03:30	04:00	Rig Service Lubricate Rig, Top Drive & ST-80

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
04:00	07:30	Cont. TIH F/ 4729' Wash and Ream Tight Spots F/4935' To 6,451'.
07:30	15:00	Drill 371' of 12.25" Vertical Hole Section Rotating From 6451' to 6822'. Ran 3 Pumps at 110 stk each= 740 GPM. Top Drive RPM 30, SPP 3775 psi Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Rotate: 371' in 7.50 Hr MW at 9.6 ppg
15:00	15:30	Serviced Rig and Equipment. Greased Rig, Blocks, Top Drive, Crown and Swivel Packing.
15:30	20:00	Drill 95' of 12.25" Vertical Hole Section Sliding From 6822' to 6917'. Ran 3 Pumps at 110 stk each= 740 GPM. Top Drive RPM 0-30, SPP 3,750 psi. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 6822' - 6947' (53' in 1.50 hr)) Total slide:53' in 3.50 hr Rotate: 42' in 1.00 Hr MW at 9.6 ppg
20:00	20:30	Service rig and equipment Greased Rig, Blocks, Top Drivre, Crown and Swivel Packing
20:30	00:00	Slide F/ 6947' to 6996' Slide 49' in 3.5 hrs. Running 2 Pumps @ 120 stks each 540 GPM SPP 1960 psi Replacing Drive Chain on # 1 Mud Pump

Report Start Date	Report End Date	24hr Activity Summary
10/4/2014	10/5/2014	Drilled 12-1/4" Hole Sliding from 6,996' to 7418'

Start Time	End Time	Comment
00:00	06:00	Slide Drill F/ 6996 to 7074'. Running 2 Pumps @ 120 stks each 540 GPM SPP 1960 psi to 05:30 Hours Running 3 pumps 742 GPM SPP 3665 psi
06:00	16:00	Drill 220' of 12.25" Vertical Hole Section Sliding From 7074' to 7294'. Ran 3 Pumps at 110 stk each= 740 GPM. Top Drive RPM 0-30, SPP 3,690 psi. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 7074' - 7294' (220' in 10.00 hr) MW at 9.6 ppg
16:00	16:30	Serviced Rig and Equipment. Greased Rig, Blocks, Top Drive, Crown and Swivel Packing.
16:30	00:00	Drill 124' of 12.25" Vertical Hole Section Sliding From 7294' to 7418'. Ran 3 Pumps at 110 stk each= 740 GPM. Top Drive RPM 0-30, SPP 3,690 psi. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 7294' - 7418' 124' in 7.5 hr) MW at 9.7 ppg

Report Start Date	Report End Date	24hr Activity Summary
10/5/2014	10/6/2014	Slide Drill F/7418 To 7781' Building angle toward 45 degrees

Start Time	End Time	Comment
00:00	03:00	Drill f 12.25" Vertical Hole Section Sliding From 7418' to7483'. Ran 3 Pumps at 110 stk each= 740 GPM. Top Drive RPM 0-30, SPP 3,690 psi. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 7418' - 7483' MW at 9.7 ppg

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
03:00	03:30	Service Rig Lubricate rig, top Drive and ST-80
03:30	06:00	Drill 53 ft of 12.25'' Vertical Hole Section Sliding From 7483' to 7536'. Ran 3 Pumps at 110 stk each= 740 GPM. Top Drive RPM 0-30, SPP 3,690 psi. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 7483' - 7536' MW at 9.7 ppg
06:00	13:00	Drill 135 ft of 12.25'' Vertical Hole Section Sliding From 7536' to 7671'. Ran 3 Pumps at 110 stk each= 740 GPM. Top Drive RPM 0-30, SPP 3,690 psi. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 7536' - 7671' MW at 9.9 ppg BGG 1500 - 3500 Units, 5 - 15 Ft Flare
13:00	13:30	Changed out Rotating Head Rubber.
13:30	17:30	Drill 64 ft of 12.25'' Vertical Hole Section Sliding From 7671' to 7735'. Ran 3 Pumps at 110 stk each= 740 GPM. Top Drive RPM 0, SPP 3,990 psi. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 7671' - 7735' MW at 9.9 ppg
17:30	18:00	Serviced Rig and Equipment. Greased Rig, Top Drive, Crown and Swivel packing.
18:00	18:30	Drill 2 ft of 12.25'' Vertical Hole Section Sliding From 7735' to 7737'. Ran 2 Pumps at 120 stk each= 540 GPM. Top Drive RPM 0, SPP 2,100 psi. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 7735' - 7737' MW at 9.9 ppg
18:30	19:30	Replaced liner gasket on # 3 mud pump. Circulated and reciprocated string while making repairs.
19:30	00:00	Drill 46 ft of 12.25'' Vertical Hole Section Sliding From 7735' to 7781'. Ran 2 Pumps at 120 stk each= 540 GPM. (Replacing Fluid end Module on # 1 Pump) Top Drive RPM 0, SPP 2,150 psi. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 7735' -7781' MW at 9.9 ppg

Report Start Date	Report End Date	24hr Activity Summary
10/6/2014	10/7/2014	Slide Drill From 7,803' to 8023'. (TD)

Start Time	End Time	Comment
00:00	05:30	Drill 17 ft of 12.25'' Vertical Hole Section Sliding From 7803' to 7820'. Ran 2 Pumps at 120 stk each= 540 GPM. (Replacing Fluid end Module on # 1 Pump) Top Drive RPM 0, SPP 2,150 psi. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 7803' -7820' MW at 9.9 ppg

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
05:30	06:00	Serviced Rig and Equipment. Greased Rig, Top Drive and ST-80.
06:00	13:00	Drill 79 ft of 12.25" Vertical Hole Section Sliding From 7820' to 7899'. Ran 2 Pumps at 120 stk each= 540 GPM. (Replaced Fluid end Module on # 1 Pump) (# 1 Mud Pump Online at 11:50 Hours) Ran 3 Pumps at 110 STK each = 740 GPM Top Drive RPM 0, SPP 2,250 - 3990 psi. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 7820' -7899' MW at 9.9 ppg "B" Limestone 7,788 Ft MD, 7,721 Ft TVD
13:00	13:30	Serviced Rig and Equipment. Greased Rig, Top Drive, Crown and Swivel packing.
13:30	17:30	Drill 87 ft of 12.25" Vertical Hole Section Sliding From 7899' to 7986'. Ran 3 Pumps at 110 STK each = 740 GPM Top Drive RPM 0, SPP 3900 psi. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 7899' -7986' MW at 9.9 ppg
17:30	18:30	Circulated while discussing 9-5/8" Casing Point with Engineer, Directional and Geology.
18:30	20:30	Drill 37 ft of 12.25" Vertical Hole Section Sliding From 7986 to 8023 (TD for 9-5/8" Casing Point)'. Ran 3 Pumps at 110 STK each = 740 GPM Top Drive RPM 0, SPP 3900 psi. Adding EZMud down the drill pipe on Connections (1 to 3 Qt at the drillers discretion) Slides: 7986' -8023' MW at 10.0 ppg
20:30	23:00	Circulate @ 8023', Circulate 40 bbl Hi-Vis Sweep around, Shakers clean, Circ one more BTMS Up
23:00	00:00	Flow Check and POOH F/ 8023' to 7271' for Short Trip

Report Start Date	Report End Date	24hr Activity Summary
10/7/2014	10/8/2014	Wiper Trip Raise MW to 10.5 Strap out of hole Lay down Dir. Tools Rig up and run 9 5/8" Casing

Start Time	End Time	Comment
00:00	01:00	Finish Wiper Trip. Trip in Hole F/6934' To 8023'
01:00	05:30	Circ and Pump 40 BBL HI-VIS Sweep, Start Circ. BTMS UP Gas increased to 5458 Units with a 5-15 FT. Flare. Circulate while raising MW to 10.5 ppg
05:30	06:00	Lube Rig Top Drive and ST-80
06:00	10:00	Circulate while raising MW to 10.5 ppg. Flow Check - No Flow. Pumped Dry Job.
10:00	17:00	(Start) Strap out of hole from 8023' to 980' while monitoring fluid displacement on trip tank. L/D 27 Joints of 5" HWDP and Jars.
17:00	17:30	Held PJSM with Weatherford. L/D XO and NMDC.
17:30	18:00	Serviced Rig & Equipment.
18:00	19:00	(End) PJSM with DD, and MWD hands. Broke Bit, Layed Down Tool Carrier, Muleshoe, and Motor

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
19:00	20:00	Pull Wear Bushing
20:00	20:30	Service Rig Lube Rig, Top Drive and service Catwalk
20:30	21:00	Held Pre Job Safety Meeting With Rig Crew and Casing Crew
21:00	22:30	Rig Up Franks Casing Equipment
22:30	00:00	Pick up 2 jt shoe track and Run 9 5/8" 40 # BTC connection, F/ surface t/ 402'.

Report Start Date	Report End Date	24hr Activity Summary
10/8/2014	10/9/2014	Run 9 5/8" Casing, Land Casing, Rig up and Cement Casing.

Start Time	End Time	Comment
00:00	06:00	Run 9 5/8 Intermediate casing F/ 402' to 5818' Auto fill function failed @ + - 3400 Ft. Had to fill casing with CRT Tool.
06:00	10:00	Run 9 5/8 Intermediate casing F/ 5818' to 7938'. M/U Casing Hanger and Landing Joint. Landed hanger in well head, shoe at 8,013'. Fill casing with CRT Tool.
10:00	13:00	Circulate and conditioned mud for cement job. Held PJSM with Halliburton.
13:00	13:30	Service Rig
13:30	14:00	R/U Cement Head and Lines.
14:00	19:00	Cement 9 5/8" Casing Pump 40 bbl tuned spacer 11.5 ppg 3.71 yield, 35 bbls 1st lead, 12.5 ppg, yield 1.96. pump 323 bbls 2nd lead 12.5 ppg 1.96 yield, pump 136 bbls tail cement 14.0 ppg 1.29 yield. Displaced W/ 600 bbls 10.5 ppg Bump Plug, Floats holding. Returned to Surface 35 BBLS Spacer.
19:00	20:30	Wash Out Stack, Rig Down Halliburton, Rig Down Casing Elevators and Bails, Cleaning Pits
20:30	00:00	Back Out Landing Jt. Attempt to Set Packoff With Cameron Hand. Cleaning Pits

Report Start Date	Report End Date	24hr Activity Summary
10/9/2014	10/10/2014	Set and Test 9-5/8" Packoff. Rig Service. Installed Wear Bushing. Cleaned mud tanks. Shipped OBM to mud tanks. M/U BHA Trip in hole to 4200'.

Start Time	End Time	Comment
00:00	02:30	Attempt to set Packoff, Applied Weight, Turned, Set weight on it, Wash Wellhead, P/U Running Tool and Try to Re-Set Casing. P/U 1 1/2' to insure casing could be cut, Pulled 300,000 lb.
02:30	05:30	Holding Casing 1-1/2' up with 300,000 lb pull. Waiting on BOP Jacks. Land hanger in well head. Tried running undressed Packoff and to remove any debris in setting area. Packoff seated properly. P/U and run original Packoff. Packoff seated. Run in Anchor Ram Screws, Tested to 2400 psi. Red Mesa cleaning mud pits.
05:30	06:00	Service Rig
06:00	06:30	Installed Wear Bushing.
06:30	09:00	Installed Catch Pans and Tarps. Red Mesa Super Suckers cleaning mud pits.
09:00	12:00	Shipped 380 bbls of14.8 ppg OBM to mud pits. Transferred slowly over shakers to keep OBM from running over shaker screens.

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
12:00	14:00	Unplugged hose's and suction lines to transfer pumps in Tank Farm.
14:00	17:30	Shipped 14.8 ppg OBM to mud pits. Transferred slowly over shakers to keep OBM from running over shaker screens.
17:30	18:00	Serviced Rig and Equipment.
18:00	18:30	Cond Mud shaking out LCM, Reduce MW to 13.0 ppg
18:30	22:00	PJSM with DD, MWD. P/U Tools M/U Bit R.S.S. Tool,NMDC,Tomax, 1 x HWDP, Drill-n-Ream
22:00	23:00	Trip in Hole to 1700 Ft. Filled Drill Pipe with 30 bbl Diesel Spacer.
23:00	00:00	Trip in Hole to 4200'. 10.5 ppg WBM displacing to Trip Tank. Vacuum Truck moving WBM from Trip Tank to Tank Farm.

Report Start Date	Report End Date	24hr Activity Summary
10/10/2014	10/11/2014	Tripped in Hole Displaced to OBM Test Casing to 1800psi for 30 min. Drilled out plus 10 Ft. of new hole Perform FIT test to 16.5 EMW. Drilled from 8,033' - 8,110'. Troubleshoot RSS. Circulated bottoms up. Pumped dry job. POH.

Start Time	End Time	Comment
00:00	02:00	Trip in Hole F/4200' to 7287'
02:00	02:30	Service Rig.
02:30	03:30	Trip in Hole F/7287' to 7924' Tagged Cement @ 7924'
03:30	08:00	Displaced 10.5 ppg WBM with 13.1 ppg OBM into Trip Tank.
08:00	09:00	Held PJSM with Eager Beaver. R/U Test Equipment. Test 9-5/8" Casing to 1800 psi for 30 min. R/D Test Equipment.
09:00	12:30	Drilled cement from 7,924', Float Collar at 7,926', Shoe at 8,013'. Cleaned out Rathole to 8,023'. Drilled 10 ft of new 8-3/4" Hole from 8,023' to 8,033'.
12:30	13:00	Circulated hole clean, spotted viscous pill in open hole.
13:00	13:30	Performed F.I.T. to 16.5 EMW. OMW 13.1 ppg, 1395 psi.
13:30	14:30	(Start) Drill 8.75"curve with RSS f/ 8033' to 8056', (2 Pumps on the hole at 110 a piece, 460 GPM) Present Mwt 13.1 ppg.
14:30	15:00	Serviced Rig and Equipment. Greased Rig, Top Drive, Crown and Swivel packing.
15:00	17:00	Drill 8.75"curve with RSS f/ 8056' to 8110', (2 Pumps on the hole at 110 a piece, 460 GPM) Present Mwt 13.1 ppg.
17:00	18:00	Troubleshoot problems with RSS. Unable to hold toolface.
18:00	19:00	Circulate BTMS UP while bui;lding Slug Flow Check (no flow) Pump Slug
19:00	00:00	Trip Out of Hole F/ 8110 to 791'

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
10/11/2014	10/12/2014	POH L/D RSS. M/U BHA. Trip in hole to 7,716'. Cut & Slip Drilling Line. RIH to 8,110'. Drilled Curve from 8,110' to 8,686'.

Start Time	End Time	Comment
00:00	00:30	Continued to POH to 130'.
00:30	02:00	Held PJSM with Weatherford Directional Crew. Stood Back in Derrick Drill-n-Ream, 1 X hwdp, Tomax, nmdc,Spiral String Stab..,Broke Bit, Layed Down HEL/IDS, and RSS Tool.
02:00	04:00	P/U RSS and HEL/IDS, M/U Bit. Program Directional Tools
04:00	04:30	Service Rig Lube Rig, Top Drive, and ST-80
04:30	08:00	Trip in Hole F/130' to 7716' with Curve BHA. Filled pipe at 2,950', and 6,169'.
08:00	09:30	Slipped and cut off 120 ft of drilling line.
09:30	10:00	Trip in hole from 7,716' to 8,055'. Filled Drill Pipe. Washed down from 8,055' to 8,110'.
10:00	14:30	Drill 8.75"curve with RSS f/ 8110' to 8339', (2 Pumps on the hole at 115 a piece, 530 GPM) Present Mwt 13.1 ppg. Lower Black Shale at 8,145'MD / 7,981' TVD / 385' VS, The target is dropped by 59' to: 0' VS = 8,117' TVD = 86.98° 892' VS = 8,164' TVD = 86.98°
14:30	15:00	Serviced Rig and Equipment.
15:00	17:00	Drill 8.75"curve with RSS f/ 8339' to 8448', (2 Pumps on the hole at 115 a piece, 530 GPM) Present Mwt 13.1 ppg.
17:00	17:30	Troubleshoot and repair Downlink Manifold.
17:30	18:30	Drill 8.75"curve with RSS f/ 8448' to 8528', (2 Pumps on the hole at 115 a piece, 530 GPM) Present Mwt 13.1 ppg.
18:30	19:00	Directional Work Re-Log Hole Section F/8504' To 8528'
19:00	20:00	Change Rotating Head Rubber
20:00	00:00	Drill 8.75"curve with RSS f/ 8528' to 8686', (2 Pumps on the hole at 115 a piece, 530 GPM) Present Mwt 13.1 ppg.

Report Start Date	Report End Date	24hr Activity Summary
10/12/2014	10/13/2014	Drill Curve, Landed curve @ 8717, Drilled 200 Ft of Lateral. Circulated and raised mud wt to 13.8 ppg. POOH For Lateral Assembly.

Start Time	End Time	Comment
00:00	02:30	Drill F/8686' Land Curve @ 8717' 87.31 degrees AZ 356 degrees TVD 8166' Cont. Drilling to 8811' while raising MW to 10.4 ppg
02:30	03:00	Service Rig Lube Rig, Top Drive and ST-80

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
03:00	05:30	Drill F/8811' To 8917' While raising MW to 13.4 ppg
05:30	08:00	Pump 40 bbl Hi-Vis Sweep Perform Clean up Cycle Rotate 120 rpm work full stand while circulating Bottoms Up
08:00	08:30	Flow Check, well was flowing back a trickle. Will raise mud weight from 13.4 ppg to 13.8 ppg.
08:30	12:00	Circulate and raised mud weight from 13.4 ppg to 13.8 ppg. Rotated and reciprocated string while building mud weight. 127 RPM, 505 GPM, SPP 3150 psi. Flow Check - No Flow. Pumped dry job.
12:00	17:30	(Start) Trip out of hole from 8,917' to 135'. Monitored displacement on Trip Tank. Flow checked at 9-5/8" Casing Shoe - No Flow.
17:30	19:00	Held PJSM with Directional Crew. L/D Reamer, 1 Jt HWDP, Float Sub and NMDC. Broke off Bit. L/D TOMAX, HEL/IDS and Stab's.
19:00	00:00	PJSM W/ DD, LWD P/U RSS, OWAR, Made up Bit,P/U HEL/IDS, SST, SAGR, NDT and TOMAX. Program Tools P/U Float Sub, 1 x HWDP, and Drill-n-Ream

Report Start Date	Report End Date	24hr Activity Summary
10/13/2014	10/14/2014	Tripped in Hole With Lateral Assembly Drilled Lateral F/8917' To 9,736'

Start Time	End Time	Comment
00:00	01:30	Install Rotating Head Rubber TIH F/ 204 To 1925'
01:30	02:00	Service rig, Top Drive, ST-80
02:00	07:30	Trip in Hole with Lateral Assembly. Re-Log Section F/8725 to 8917' Gas Peak 5550 Units with 5-15' sometimes 20' Flare. Gas came in early about half way thru BTMS up Strokes.
07:30	11:00	Drill 8.75" Lateral with RSS f/ 8917' to 9084', (2 Pumps on the hole at 115 SPM Each, 530 GPM) Present Mwt 13.8 ppg.
11:00	12:00	Trouble Shoot Computer. Reboot computers.
12:00	15:30	Drill 8.75" Lateral with RSS f/ 9084' to 9263', (2 Pumps on the hole at 115 SPM Each, 530 GPM) Present Mwt 13.8 ppg.
15:30	16:00	Serviced Rig and Equipment. Greased Rig, Blocks, Top Drive, Crown & Swivel Packing.
16:00	00:00	Drill 8.75" Lateral with RSS f/ 9263' to 9736', (2 Pumps on the hole at 115 SPM Each, 530 GPM) Present Mwt 13.8 ppg.

Report Start Date	Report End Date	24hr Activity Summary
10/14/2014	10/15/2014	Drilled Lateral Section F/9,736 to 10,774'

Start Time	End Time	Comment
00:00	03:30	Drill Lateral Section F/ 9,736' To 9,924 Running 2 Pumps 115 Stks Each SPP 4090 psi 530 GPM Top Drive RPM 144 WOB 27-30 K MW 13.8 ppg
03:30	04:00	Service Rig Lube Top Drive, ST-80 and Rig
04:00	06:00	Drill Lateral Section F/ 9,924' To 10,019'. Running 2 Pumps 115 Stks Each SPP 4090 psi 530 GPM Top Drive RPM 144 WOB 27-30K MW 13.8 ppg

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
06:00	12:00	Drill Lateral Section F/ 10,019' To 10,329'. 06:00 to 07:00 Running 2 Pumps 115 SPM Each, SPP 4090 psi. 530 GPM, 07:00 - 12:00 Running 2 Pumps 105 SPM Each, SPP 3650 Psi, 490 GPM, Top Drive RPM 144, WOB 27-30K, MW 13.8 ppg
12:00	16:30	Drill Lateral Section F/ 10,329' To 10,491'. Running 2 Pumps 105 SPM Each, SPP 3650 psi. 490 GPM, Top Drive RPM 144, WOB 27-30K, MW 13.8 ppg
16:30	17:00	Rig Service Lube Crown, Drawworks, Top Drive and compound
17:00	00:00	Drill Lateral Section F/ 10491' To 10,774'. Running 2 Pumps 105 SPM Each, SPP 3650 psi. 490 GPM, Top Drive RPM 144, WOB 27-30K, MW 13.8 ppg

Report Start Date	Report End Date	24hr Activity Summary
10/15/2014	10/16/2014	Drill Lateral Section F/10,774 To 11,718'

Start Time	End Time	Comment
00:00	02:30	Drill Lateral F/10,774' to 10,868' Control Drill With 26K WOB held to 80 ROP Running 2 Pumps @ 105 STKS Each 481 GPM 3600 SPP. RPM140 Torq 9600
02:30	03:00	Service Rig
03:00	06:00	Drill Lateral F/10,868' to 10,963' Control Drill With 26K WOB held to 80 ROP Running 2 Pumps @ 105 STKS Each 481 GPM 3600 SPP. RPM140 Torq 9600
06:00	14:30	Drill Lateral F/10,963' to 11,246' 28K WOB Running 2 Pumps @ 105 STKS Each 491 GPM 3800 SPP. RPM140 Torq 9600
14:30	15:00	Serviced Rig and Equipment.
15:00	00:00	Drill Lateral F/11,246' to 11,718' 28K WOB Running 2 Pumps @ 105 STKS Each 490 GPM 3800 SPP. RPM150 Torque 9600

Report Start Date	Report End Date	24hr Activity Summary
10/16/2014	10/17/2014	Drilled F/11,718 To 12,865'

Start Time	End Time	Comment
00:00	02:00	Drill 8 3/4' Lateral Section f/11,718 tO 11,812' 2 Pumps on the hole @ 105 Stks Each 482 GPM, 3800 SPP, Rotary Torque 13,500 Top Drive RPM 135
02:00	02:30	Service Rig
02:30	06:00	Drill 8 3/4' Lateral Section f/11,812 To 12,033' 2 Pumps on the hole @ 105 Stks Each 482 GPM, 3800 SPP, Rotary Torque 13,500 Top Drive RPM 135
06:00	13:00	Drill 8 3/4' Lateral Section f/12,033' To 12,379' 2 Pumps on the hole @ 105 Stks Each 482 GPM, 3800 SPP, Rotary Torque 12,500 Top Drive RPM 135
13:00	13:30	Serviced Rig and Equipment. Checked oil levels in Top Drive and Drawworks.
13:30	18:00	Drill 8 3/4' Lateral Section f/12,379' To 12,631' 2 Pumps on the hole @ 105 Stks Each 482 GPM, 3800 SPP, Rotary Torque 12,500 Top Drive RPM 130-140
18:00	20:00	Drill 8 3/4' Lateral Section f/12,631' To 12,742' 2 Pumps on the hole @ 105 Stks Each 482 GPM, 3800 SPP, Rotary Torque 12,500 Top Drive RPM 130-140

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
20:00	21:00	Repair and bypass Downlink Equipment
21:00	00:00	Drill 8 3/4' Lateral Section f/12,742' To 12,865' 2 Pumps on the hole @ 105 Stks Each 482 GPM, 3800 SPP, Rotary Torque 12,500 Top Drive RPM 130-140

Report Start Date	Report End Date	24hr Activity Summary
10/17/2014	10/18/2014	Drill Lateral Section F/12,865' To 13,891'

Start Time	End Time	Comment
00:00	02:00	Drill 8 3/4' Lateral Section f/12,865' To 12,948' 2 Pumps on the hole @ 105 Stks Each 482 GPM, 3800 SPP, Rotary Torque 12,500 Top Drive RPM 130-140
02:00	02:30	Directional work, Change out Downlink Unit
02:30	04:00	Drill 8 3/4' Lateral Section f/12,948' To 13,040' 2 Pumps on the hole @ 105 Stks Each 482 GPM, 3800 SPP, Rotary Torque 12,500 Top Drive RPM 130-140
04:00	04:30	Rig Service
04:30	06:00	Drill 8 3/4' Lateral Section f/13,040' To 13,134' 2 Pumps on the hole @ 105 Stks Each 482 GPM, 3800 SPP, Rotary Torque 12,500 Top Drive RPM 130-140
06:00	12:00	Drill 8 3/4' Lateral Section f/13,134' To 13,436' 2 Pumps on the hole @ 105 Stks Each 482 GPM, SPP 4100 psi, Rotary Torque 12,500 Top Drive RPM 130-140
12:00	15:30	Drill 8 3/4' Lateral Section f/13,436' To 13,607' 2 Pumps on the hole @ 104 Stks Each 470 GPM, SPP 3950 psi, Rotary Torque 12,500 Top Drive RPM 130-140
15:30	16:30	Flow Checked - No Flow. Changed out leaking Rotating Head Rubber.
16:30	17:00	Service Rig Lube Rig, Blocks, Top Drive, Crown, Swivel Packing
17:00	18:00	Drill 8 3/4' Lateral Section f/13607' To 13,677' 2 Pumps on the hole @ 104 Stks Each 470 GPM, SPP 3950 psi, Rotary Torque 12,500 Top Drive RPM 130-140
18:00	18:30	Change out flow sensor Gasket
18:30	00:00	Drill 8 3/4' Lateral Section f/13677' To 13,13891' 2 Pumps on the hole @ 104 Stks Each 470 GPM, SPP 3950 psi, Rotary Torque 12,500 Top Drive RPM 130-140

Report Start Date	Report End Date	24hr Activity Summary
10/18/2014	10/19/2014	Drill 8 3/4" Lateral F/13891 To 15,041'

Start Time	End Time	Comment
00:00	02:00	Drill 8 3/4' Lateral Section f/13891' To 13,978' 2 Pumps on the hole @ 104 Stks Each 470 GPM, SPP 3950 psi, Rotary Torque 12,500 Top Drive RPM 130-140
02:00	03:30	Trouble Shoot LWD Tools Re-Wipe in Data
03:30	04:00	Rig Service
04:00	06:00	Drill 8 3/4' Lateral Section f/13978' To 14,078' 2 Pumps on the hole @ 104 Stks Each 470 GPM, SPP 3950 psi, Rotary Torque 12,500 Top Drive RPM 130-140

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
06:00	07:00	Relogged from 13,984' to 14,078' .
07:00	08:00	Downlink to change to Frequency 2 for data acquisition.
08:00	14:00	Drill 8 3/4' Lateral Section f/14,078' To 14,361' 2 Pumps on the hole @ 100 Stks Each 462 GPM, SPP 4000 psi, Rotary Torque 14,500 Top Drive RPM 130
14:00	14:30	Serviced Rig and Equipment.
14:30	18:00	Drill 8 3/4' Lateral Section f/14,361' To 14,676' 2 Pumps on the hole @ 100 Stks Each 460 GPM, SPP 4000 psi, Rotary Torque 13,800 Top Drive RPM 130
18:00	00:00	Drill 8 3/4' Lateral Section f/14,676' To 15,041' 2 Pumps on the hole @ 100 Stks Each 452 GPM, SPP 4000 psi, Rotary Torque 13,800 Top Drive RPM 130

Report Start Date	Report End Date	24hr Activity Summary
10/19/2014	10/20/2014	Drill 8 3/4' Lateral F/15,041' To 15,914'

Start Time	End Time	Comment
00:00	02:30	Drill 8 3/4' Lateral Section f/15,041' To 15,212' 2 Pumps on the hole @ 100 Stks Each 452 GPM, SPP 4000 psi, Rotary Torque 13,800 Top Drive RPM 130
02:30	03:00	Service Rig
03:00	06:00	Drill 8 3/4' Lateral Section f/15,212' To 15,401' 2 Pumps on the hole @ 100 Stks Each 452 GPM, SPP 4000 psi, Rotary Torque 13,300 Top Drive RPM 130
06:00	08:00	Drill 8 3/4' Lateral Section f/15,401' To 15,465' 2 Pumps on the hole @ 100 Stks Each 452 GPM, SPP 4000 psi, Rotary Torque 15,500 Top Drive RPM 150
08:00	08:30	Downlink.
08:30	09:00	Drill 8 3/4' Lateral Section f/15,465' To 15,496' 2 Pumps on the hole @ 100 Stks Each 452 GPM, SPP 4000 psi, Rotary Torque 15,500 Top Drive RPM 150
09:00	09:30	Downlink.
09:30	13:00	Drill 8 3/4' Lateral Section f/15,496' To 15,614' 2 Pumps on the hole @ 100 Stks Each 452 GPM, SPP 4000 psi, Rotary Torque 15,500 Top Drive RPM 150
13:00	13:30	Downlink.
13:30	14:00	Drill 8 3/4' Lateral Section f/15,614' To 15,646' 2 Pumps on the hole @ 100 Stks Each 452 GPM, SPP 4000 psi, Rotary Torque 15,500 Top Drive RPM 150
14:00	15:00	Troubleshoot power failure on MD Totco System.
15:00	15:30	Drill 8 3/4' Lateral Section f/15,646' To 15,685' 2 Pumps on the hole @ 100 Stks Each 452 GPM, SPP 4000 psi, Rotary Torque 15,500 Top Drive RPM 150
15:30	16:00	Serviced Rig and Equipment.

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
16:00	18:00	Troubleshoot MD Totco System. Replaced Cable to Wireless Antenna.
18:00	00:00	Drill 8 3/4' Lateral Section f/15,685' To 15,914' 2 Pumps on the hole @ 100 Stks Each 452 GPM, SPP 4000 psi, Rotary Torque 15,500 Top Drive RPM 150

Report Start Date	Report End Date	24hr Activity Summary
10/20/2014	10/21/2014	Drill 8 3/4' Lateral F/15,914' To 16,818'

Start Time	End Time	Comment
00:00	00:30	Downlink.
00:30	03:30	Drill 8 3/4' Lateral Section f/15,914' To 16,063' 2 Pumps on the hole @ 100 Stks Each 452 GPM, SPP 4000 psi, Rotary Torque 15,500 Top Drive RPM 150
03:30	04:00	Serviced Rig and Equipment.
04:00	05:30	Drill 8 3/4' Lateral Section f/16,063' To 16,157' 2 Pumps on the hole @ 95 Stks Each 436 GPM, SPP 4150 psi, Rotary Torque 17,600 Top Drive RPM 150
05:30	06:00	Downlink. Reboot LWD Computers.
06:00	08:00	Drill 8 3/4' Lateral Section f/16,157' To 16,251' 2 Pumps on the hole @ 95 Stks Each 436 GPM, SPP 4290 psi, Rotary Torque 17,600 Top Drive RPM 140-150
08:00	08:30	Downlink.
08:30	12:00	Drill 8 3/4' Lateral Section f/16,251' To 16,409' 2 Pumps on the hole @ 95 Stks Each 436 GPM, SPP 4290 psi, Rotary Torque 17,600 Top Drive RPM 140-150
12:00	15:30	Drill 8 3/4' Lateral Section f/16,409' To 16,534' 2 Pumps on the hole @ 95 Stks Each 436 GPM, SPP 4350 psi, Rotary Torque 16,600 Top Drive RPM 140-150
15:30	16:00	Serviced Rig and Equipment.
16:00	18:00	Drill 8 3/4' Lateral Section f/16,534' To 16,610' 2 Pumps on the hole @ 95 Stks Each 436 GPM, SPP 4350 psi, Rotary Torque 16,600 Top Drive RPM 140-150
18:00	21:00	Drill 8 3/4' Lateral Section f/16,610' To 16738' 2 Pumps on the hole @ 95 Stks Each 436 GPM, SPP 4150 psi, Rotary Torque 16,600 Top Drive RPM 140-150
21:00	21:30	Service Rig
21:30	00:00	Drill 8 3/4' Lateral Section f/16,738' To 16,818' 2 Pumps on the hole @ 95 Stks Each 436 GPM, SPP 4150 psi, Rotary Torque 16,600 Top Drive RPM 140-150

Report Start Date	Report End Date	24hr Activity Summary
10/21/2014	10/22/2014	Drill 8 3/4" Lateral Hole F16,818' To 17,245'

Start Time	End Time	Comment
00:00	02:00	Drill 8 3/4' Lateral Section f/16,818' To 16,863' 2 Pumps on the hole @ 95 Stks Each 436 GPM, SPP 4150 psi, Rotary Torque 16,600 Top Drive RPM 140-150
02:00	03:30	Service and replace Swab in Mud Pump #1

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
03:30	06:00	Drill 8 3/4' Lateral Section f/16863' To 16918' 2 Pumps on the hole @ 95 Stks Each 436 GPM, SPP 4150 psi, Rotary Torque 16,600 Top Drive RPM 140-150
06:00	06:30	Drill 8 3/4' Lateral Section f/16,918' To 16,925' 2 Pumps on the hole @ 91 Stks Each 420 GPM, SPP 4150 psi, Rotary Torque 16,600 Top Drive RPM 140-150
06:30	07:00	Serviced Rig and Equipment.
07:00	08:00	Drill 8 3/4' Lateral Section f/16,925' To 16,972' 2 Pumps on the hole @ 91 Stks Each 420 GPM, SPP 4150 psi, Rotary Torque 16,600 Top Drive RPM 140-150
08:00	08:30	Downlink to RSS.
08:30	09:30	Drill 8 3/4' Lateral Section f/16,972' To 17,006' 2 Pumps on the hole @ 91 Stks Each 420 GPM, SPP 4150 psi, Rotary Torque 16,600 Top Drive RPM 140-150
09:30	10:00	Downlink to RSS.
10:00	12:00	Drill 8 3/4' Lateral Section f/17,006' To 17,058' 2 Pumps on the hole @ 91 Stks Each 420 GPM, SPP 4150 psi, Rotary Torque 16,600 Top Drive RPM 140-150
12:00	13:00	Drill 8 3/4' Lateral Section f/17,058' To 17,100' 2 Pumps on the hole @ 91 Stks Each 420 GPM, SPP 4150 psi, Rotary Torque 16,600 Top Drive RPM 140-150
13:00	13:30	Downlink to RSS.
13:30	17:00	Drill 8 3/4' Lateral Section f/17,100' To 17,223' 2 Pumps on the hole @ 91 Stks Each 420 GPM, SPP 4250 psi, Rotary Torque 14,600 Top Drive RPM 140-150
17:00	17:30	Downlink to RSS.
17:30	18:00	Drill 8 3/4' Lateral Section f/17,223' To 17,245' 2 Pumps on the hole @ 91 Stks Each 420 GPM, SPP 4250 psi, Rotary Torque 14,600 Top Drive RPM 140-150
18:00	23:30	Drill 8 3/4' Lateral Section f/17,245' To 17,449' 2 Pumps on the hole @ 91 Stks Each 420 GPM, SPP 4250 psi, Rotary Torque 14,600 Top Drive RPM 140-150
23:30	00:00	Directional Work, Survey

Report Start Date	Report End Date	24hr Activity Summary
10/22/2014	10/23/2014	Drill 8 3/4" Lateral Section F/17,245' To 17,977', TD for Lateral Section. Circulate bottoms up, Raised mud weight from 14.0 ppg to 14.3 ppg. added Lube to bring to 2% in OBM.

Start Time	End Time	Comment
00:00	00:30	Drill 8 3/4' Lateral Section f/17,449' To 17,478' 2 Pumps on the hole @ 91 Stks Each 420 GPM, SPP 4250 psi, Rotary Torque 14,600 Top Drive RPM 140-150
00:30	01:00	Directional Work Survey,
01:00	04:00	Drill 8 3/4' Lateral Section f/17,478' To 17,572' 2 Pumps on the hole @ 91 Stks Each 420 GPM, SPP 4250 psi, Rotary Torque 14,600 Top Drive RPM 140-150
04:00	04:30	Service Rig

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
04:30	06:00	Drill 8 3/4' Lateral Section f/17,572' To 17,667' 2 Pumps on the hole @ 91 Stks Each 420 GPM, SPP 4250 psi, Rotary Torque 14,600 Top Drive RPM 140-150
06:00	13:30	Drill 8 3/4' Lateral Section f/17,667' To 17,977' TD for Lateral Section. 2 Pumps on the hole @ 91 Stks Each 420 GPM, SPP 4250 psi, Rotary Torque 14,600 Top Drive RPM 140-150
13:30	15:30	Circulating bottoms up. Adding 2% Lube to system. Downlinking to shut off Deflection to RSS.
15:30	18:00	Circulating Bottoms Up, Raising Mud Weight from 14.0 ppg to 14.3 ppg.
18:00	00:00	Circulating Bottoms Up, Raising Mud Weight from 14.0 ppg to 14.3 ppg.

Report Start Date	Report End Date	24hr Activity Summary
10/23/2014	10/24/2014	Performing Clean up Cycle cond. Mud weighing up mud to 14.5 ppg. Flow Check - No Flow. POH 5 Stands. Pump Dry Job. POH from 17,536'

Start Time	End Time	Comment
00:00	01:00	Circulating Bottoms Up, Raising Mud Weight from 14.0 ppg to 14.3 ppg.
01:00	02:00	Shut down pumps and flow check. Pull stand of pipe to see if pipe pulled free. pipe pulled free. after 45 min well flowing @ 1 bbl/hr.
02:00	05:30	Circulating Bottoms Up, Raising Mud Weight from 14.3 ppg to 14.5 ppg.
05:30	06:00	Service Rig
06:00	08:30	Circulating Bottoms Up, Raising Mud Weight from 14.3 ppg to 14.5 ppg.
08:30	09:30	Flow Check. No Flow.
09:30	10:30	Trip out of hole from 17,977' to 17,536' at 10 min/Stand, pulling 250-280K with spikes to 310K.
10:30	11:30	Mixed and pumped dry job.
11:30	15:30	Trip out of hole from 17,536' to 13,060'. Monitoring displacement on Trip Tank, hole taking correct amount of fluid displacement.
15:30	16:00	Serviced Rig and Equipment.
16:00	18:00	Trip out of hole from 13,060' to 10,000'. Monitoring displacement on Trip Tank, hole taking correct amount of fluid displacement.
18:00	20:00	Trip out of hole from 10,000 ' 7,868' Monitoring displacement on Trip Tank, hole taking correct amount of fluid displacement.
20:00	20:30	Flow Check While filling trip tank
20:30	22:00	Slip & Cut Drill Line
22:00	22:30	Service Rig
22:30	00:00	Pooh Laying down singles.

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
10/24/2014	10/25/2014	POOH to Shoe Flow Check, Slip and Cut Drill Line, POOH Laying Down Drill Pipe & BHA. RIH and L/D Drill Pipe out of Derrick.

Start Time	End Time	Comment
00:00	06:00	POOH Laying Down 5" Pipe from 6,926' to 1,000'.
06:00	07:00	POOH Laying Down 5" Pipe from 1,000' to 235'.
07:00	07:30	Removed Rotating Head Rubber.
07:30	11:00	POH L/D 1 Jt HWDP, Reamer, Float Sub, TOMAX, NDT, SAGR, and SST. Broke off Bit. L/D HEL/IDS, GWAR, and RSS.
11:00	11:30	Serviced Rig and Equipment.
11:30	14:00	M/U Bit and Bit Sub w/ Float. Trip in hole with 35 Stands of 5" Drill Pipe.
14:00	18:00	POH Laying Down 5" Drill Pipe, Monitoring displacement on Trip Tank.
18:00	19:30	POH Laying Down 5" Drill Pipe, Monitoring displacement on Trip Tank.
19:30	22:00	Trip in hole with 35 Stands of 5" Drill Pipe.
22:00	00:00	POH Laying Down 5" Drill Pipe, Monitoring displacement on Trip Tank.

Report Start Date	Report End Date	24hr Activity Summary
10/25/2014	10/26/2014	POOH Laying Down Drill Pipe. Pulled Wear Bushing. PJSM with Franks. R/U Casing Tongs and Equipment. Run 5-1/2" Production Casing.

Start Time	End Time	Comment
00:00	04:00	POH Laying Down 5" Drill Pipe, Monitoring displacement on Trip Tank. ST-80 Inoperable. Using Rotary Tongs and backing out Drill Pipe with Pipe Wrench.
04:00	04:30	Serviced Rig and Equipment.
04:30	06:00	Trip in hole with 35 Stands of 5" Drill Pipe.
06:00	10:30	POH Laying Down 5" Drill Pipe, Monitoring displacement on Trip Tank. ST-80 Inoperable. Using Rotary Tongs and backing out Drill Pipe with Pipe Wrench.
10:30	11:30	M/U Bushing Puller and pulled Wear Bushing.
11:30	13:30	Held PJSM wit Franks, Tennaris Rep, Halliburton Serviceman. R/U CRT, Bale Extensions, Elevators, Casing Tongs and Equipment.
13:30	18:00	Make Up Shoe Track, Reaming Shoe, 1 Jt csg, Float Collar, 1 Jt csg, Landing Collar, 2 Jts csg, RSI Sleeve. Test Floats. Run 5.5", 20# P-110 XP BTC casing. Make Up casing @ 15 RPM'S Per Deep Well thread rep. Run casing F/ surface to 2663',
18:00	18:30	PJSM with rig crew and casing crew
18:30	00:00	Run 5.5", 20# P-110 XP BTC casing. Make Up casing @ 15 RPM'S Per Deep Well thread rep. Run casing F/ surface to 7544' Fill every 50 Joints

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
10/26/2014	10/27/2014	Run 5.5" Production Casing.

Start Time	End Time	Comment
00:00	04:30	Run 5.5", 20# P-110 XP BTC casing. Make Up casing @ 15 RPM'S Per Deep Well thread rep. Run casing F/ 7,544'to 10,600' Fill every 50 Joints
04:30	05:00	Fill Casing and Install Rotating Head Rubber
05:00	05:30	Run 5.5", 20# P-110 XP BTC casing. Make Up casing @ 15 RPM'S Per Deep Well thread rep. Run casing F/ 10,600 'to 11,313' Fill every 50 Joints
05:30	06:00	Service Rig
06:00	13:30	Run 5.5", 20# P-110 XP BTC casing. Make Up casing @ 15 RPM'S Per Deep Well thread rep. Run casing F/ 11,313 'to 17,816'. Fill every 50 Joints
13:30	14:00	Removed Rotating Head Rubber.
14:00	15:00	Run 5.5", 20# P-110 XP BTC casing. Make Up casing @ 15 RPM'S Per Deep Well thread rep. Run casing F/ 17,816 'to 17,932'. M/U Casing Hanger/Landing Joint.
15:00	15:30	Filled Casing, Circulated down with Landing Joint, Landed Casing Hanger in wellhead.
15:30	16:30	R/D Casing Elevators, Bale Extensions, and TAWG Tool.
16:30	17:00	M/U Franks Cementing Head.
17:00	17:30	Serviced Rig and Equipment.
17:30	20:00	Circulating at 5.0 BPM, Rotating 10 RPM.
20:00	00:00	Wait on Cement Delivery

Report Start Date	Report End Date	24hr Activity Summary
10/27/2014	10/28/2014	Ran and Cemented 5.5" Production Casing. R/D Cement Lines & Cement Head.

Start Time	End Time	Comment
00:00	01:00	Wait on Cement to be delivered
01:00	01:30	PJSM With rig crew and cementers
01:30	07:30	Fill Lines, Pressure test to 9000 psi. Pump 40 BBLS Tuned Spacer at 14.8 ppg. Pump 326 BBLS 15.2 ppg (1265 SX) Tergovis. Pump 577 BBLS of 15.7 ppg (2090 SX) Primary Cement, Drop Plug, Displace Cement with 395 BBLS 8.33 ppg Water. Bumped Plug with 6,470 psi. Floats Holding.
07:30	08:30	R/D Halliburton Lines and Equipment.
08:30	09:30	R/D Franks Cementing Head.
09:30	12:00	Backed out and Laid Down Landing Joint.
12:00	14:30	Made multiple attempts to remove Rotating Head Rubber. Removed Rotating Head Rubber.

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Summary Rig Activity

Well Name: Powvitch 15-13-12-3-2WB

Start Time	End Time	Comment
14:30	16:30	M/U Pack-Off Running Tool. Seat Packoff and run in Anchor Ram Bolts.
16:30	17:00	Serviced Rig and Equipment.
17:00	18:00	M/U Rods, Installed Back Pressure Valve. Break down rods.
18:00	00:00	Nipple Down Choke Line BOP & Kill Line Clean Mud Tanks. (Release Rig @ Midnight 00:00 10-28-14)